CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Mar. 25	Cleveland, O.	Mar. 23
Mar. 27	Neodesha, Kan.	Mar. 23
Mar. 27	Ferndale, Mich.	Mar. 23
Mar. 28	Nashville, Tenn.	Mar. 23
Mar. 28	Walla Walla, Wash.	Mar. 9
Mar. 28	Fallon, Nev.	Feb. 23
Mar. 28	Phila., Pa.	Mar. 23
Mar. 29	Milwaukee, Wis.	Mar. 23
Mar. 30	Watertown, S. D.	Mar. 16
Mar. 30	Ebensburg, Pa. Adv. Mar. 23.	Mar. 23
Mar. 30	Ottawa, Ont.	Mar. 23
Mar. 30	Bethany, Neb.	Mar. 23
Mar. 31	North Grafton, Mass. Adv. Mar. 23.	Mar. 23
Mar. 31	Cody, Neb.	Mar. 23
Mar. 31	Youngstown, O.	Mar. 23
Mar. 31	Dunnville, Ont.	Mar. 23
Apr. 1	Waupaca, Wis.	Mar. 16
Apr. 1	Lincoln, Neb.	Mar. 16
Apr. 3	Kewanee, Ill. Adv. Mar. 16 and 23.	Mar. 23
Apr. 3	Lodi, Cal.	Mar. 23
Apr. 4	Albemarle, N. C. Adv. Mar. 23.	Mar. 23
Apr. 8	Seaforth, Ont.	Mar. 23
Apr. 10	Springfield, Mass. Adv. Mar. 23.	Mar. 23
Apr. 12	San Francisco, Cal.	Mar. 9
Apr. 12	Cleveland, O. Adv. Mar. 23.	Mar. 23
Apr. 14	Spring Green, Wis.	Mar. 23
Apr. 18	Lexington, N. C. Adv. Mar. 23.	Mar. 23

SEWERS

Mar. 27	Johnstown, Pa.	Mar. 9
Mar. 28	Memphis, Tenn.	Mar. 16
Mar. 28	Coffeyville, Kan.	Mar. 16
Mar. 29	Glendale, O. Adv. Mar. 9 to 23.	Mar. 9
Mar. 29	Long Island City, N. Y.	Mar. 23
Mar. 30	Indianapolis, Ind.	Mar. 9
Mar. 30	Ridgefield, N. J.	Mar. 23
Mar. 31	Red Bank, N. J. Adv. Mar. 16 and 23.	Mar. 16
Apr. 1	Lima, O.	Mar. 2
Apr. 10	Los Angeles, Cal.	Feb. 16
Apr. 17	Ames, Ia.	Mar. 16
Apr. 18	Jersey City, N. J. Adv. Mar. 23.	Mar. 23

BRIDGES

Mar. 27	Lancaster, Pa.	Mar. 9
Mar. 27	Johnstown, Pa.	Mar. 9
Mar. 27	Colorado	Mar. 9
Mar. 28	Belton, Tex.	Mar. 16
Mar. 28	Atlantic, Ia.	Mar. 23
Mar. 29	Maine	Mar. 16
Mar. 29	Baltimore, Md.	Mar. 23
Mar. 30	Ottumwa, Ia.	Mar. 16
Mar. 30	North Carolina	Mar. 23
Mar. 30	Carrollton, Mo. Adv. Mar. 23.	Mar. 23
Mar. 30	Nacogdoches, Tex.	Mar. 23
Mar. 30	Garner, Ia.	Mar. 23
Mar. 30	Missouri	Mar. 23
Mar. 31	Tennessee	Mar. 16
Mar. 31	Detroit, Mich.	Mar. 16
Mar. 31	Alabama	Mar. 9
Mar. 31	Georgetown, Tex.	Mar. 23
Apr. 1	Cedartown, Ga.	Mar. 23
Apr. 1	Belton, Tex.	Mar. 23
Apr. 1	Monticello, N. Y. Adv. Mar. 23.	Mar. 23
Apr. 4	West Virginia Adv. Mar. 16 and 23.	Mar. 9
Apr. 4	Lewisburg, W. Va. Adv. Mar. 16 and 23.	Mar. 16
Apr. 4	Indiana	Mar. 23
Apr. 4	Lenhartsville, Pa. Adv. Mar. 16 and 23.	Mar. 23
Apr. 4	Dublin, Ga.	Mar. 23
Apr. 4	Keosauqua, Ia.	Mar. 23
Apr. 4	Cherokee, Ia.	Mar. 23
Apr. 6	Pensacola, Fla.	Mar. 16
Apr. 7	Chehalis, Wash.	Mar. 23
Apr. 10	Shadesville, O.	Mar. 16
Apr. 11	Alabama	Mar. 16
Apr. 11	Lake Charles, La. Adv. Mar. 23.	Mar. 23
Apr. 17	Victoria, B. C. Adv. Mar. 23.	Mar. 23
Apr. 18	Pensacola, Fla.	Mar. 23
Apr. 18	Raymond, Wash.	Mar. 23
Oct. 31	Sydney, Australia	Jan. 12

Bids Close		See Eng. News-Record

DAMS

Mar. 28	Peshtigo, Wis.	Mar. 16
Apr. 3	Basin, Wyo.	Mar. 9
Apr. 20	Columbus, O.	Mar. 23
Apr. 22	Clarksburg, W. Va. Adv. Mar. 23.	Mar. 23

RAILWAYS

Apr. 3	New York	Mar. 23

EXCAVATION AND DREDGING

Mar. 28	Charles City, Ia.	Mar. 23
Mar. 30	Wautoma, Wis.	Mar. 23
Apr. 3	Muscatine, Ia.	Mar. 23
Apr. 4	Charles City, Ia.	Mar. 23
Apr. 7	Neillsville, Wis.	Mar. 16
Apr. 10	Ontario Adv. Mar. 9 to 23.	Mar. 9
Apr. 18	Rochester, N. Y. Adv. Mar. 23.	Mar. 23
Apr. 22	Clarksburg, W. Va. Adv. Mar. 23.	Mar. 23

STREETS AND ROADS

Mar. 27	Nevada	Mar. 16
Mar. 27	Babylon, N. Y.	Mar. 2
Mar. 27	Jersey City, N. J.	Mar. 9
Mar. 27	Elmira, N. Y.	Mar. 16
Mar. 27	Colorado	Mar. 23
Mar. 27	Ohio	Mar. 23
Mar. 27	Marshalltown, Ia.	Mar. 23
Mar. 27	West Bend, Wis.	Mar. 23
Mar. 27	Altus, Okla.	Mar. 23
Mar. 28	New York, N. Y.	Mar. 23
Mar. 28	Alabama	Mar. 2
Mar. 28	Massachusetts	Mar. 9
Mar. 28	Atchison, Kan.	Mar. 9
Mar. 28	Geneva, N. Y.	Mar. 16
Mar. 28	New York Adv. Mar. 9 to 23.	Mar. 16
Mar. 28	Mantorville, Minn.	Mar. 16
Mar. 28	Missouri	Mar. 16
Mar. 28	Denver, Col.	Mar. 23
Mar. 28	Waukesha, Wis.	Mar. 23
Mar. 28	Atlantic, Ia.	Mar. 23
Mar. 29	Wisconsin	Mar. 23
Mar. 29	Alabama	Mar. 2
Mar. 29	Baltimore, Md.	Mar. 16
Mar. 29	Rhode Island Adv. Mar. 23.	Mar. 23
Mar. 29	Ohio	Mar. 23
Mar. 29	Hamilton, Ill. Adv. Mar. 23.	Mar. 23
Mar. 29	Fargo, N. D.	Mar. 23
Mar. 30	Missouri	Mar. 16
Mar. 30	Stephens Point, Wis.	Mar. 16
Mar. 30	North Carolina Adv. Mar. 23.	Mar. 23
Mar. 30	Dallas, Tex.	Mar. 23
Mar. 30	Georgetown, Tex.	Mar. 23
Mar. 30	Missouri	Mar. 23
Mar. 30	New York, N. Y.	Mar. 23
Mar. 30	Long Island City, N. Y.	Mar. 23
Mar. 31	Long Island City, N. Y.	Mar. 23
Mar. 31	Tennessee	Mar. 16
Mar. 31	Ottumwa, Ia.	Mar. 16
Mar. 31	Kalamazoo, Mich. Adv. Mar. 9 to 23.	Mar. 9
Mar. 31	Illinois	Mar. 23
Mar. 31	South Milwaukee, Wis.	Mar. 23
Apr. 1	Granfield, Okla.	Feb. 2
Apr. 1	Cedartown, Ga.	Mar. 23
Apr. 1	St. Catharines, Ont.	Mar. 23
Apr. 2	Greensboro, N. C.	Mar. 23
Apr 3	San Luis Obispo, Cal.	Mar. 23
Apr. 3	Quebec	Mar. 16
Apr. 3	California	Mar. 16
Apr. 3	Greenboro, N. C. Adv. Mar. 23.	Mar. 23
Apr. 3	Michigan	Mar. 23
Apr. 3	Seymour, Wis.	Mar. 23
Apr. 3	Manitowoc, Wis.	Mar. 23
Apr. 3	Euclid, O.	Mar. 23
Apr. 3	Jeffersonville, Ind.	Mar. 23
Apr. 4	Bexley (Columbus P. O.), O.	Mar. 16
Apr. 4	Shawano, Wis.	Feb. 23
Apr. 4	Somerville, N. J. Adv. Mar. 9 to 23.	Mar. 9
Apr. 4	Trenton, N. J. Adv. Mar. 23.	Mar. 23
Apr. 4	Shawano, Wis.	Mar. 16
Apr. 4	Mound City, Kan.	Mar. 9
Apr. 4	West Virginia	Mar. 9
Apr. 4	Willmar, Minn.	Mar. 23
Apr. 4	Missouri	Mar. 23
Apr. 4	Stillwater, Minn.	Mar. 23
Apr. 4	Rochester, Minn.	Mar. 23
Apr. 4	Minnesota	Mar. 23
Apr. 5	Red Lake Falls, Minn.	Mar. 23
Apr. 5	Topeka, Kan.	Mar. 16
Apr. 5	Michigan	Mar. 23
Apr. 5	Freehold, N. J. Adv. Mar. 16 and 23.	Mar. 23

Bids Close		See Eng. News-Record
Apr. 5	Sea Girt, N. J. Adv. Mar. 16 and 23.	Mar. 23
Apr. 6	Minnesota	Mar. 16
Apr. 6	Pensacola, Fla. Adv. Mar. 9 to 23.	Mar. 9
Apr. 6	York, S. C.	Mar. 23
Apr. 6	Minnesota	Mar. 23
Apr. 7	Eldorado, Kan.	Mar. 16
Apr. 8	Ohio	Mar. 23
Apr. 10	Hinton, W. Va.	Mar. 16
Apr. 10	Salem, N. J. Adv. Mar. 16 and 23.	Mar. 16
Apr. 10	Hastings, Minn.	Mar. 23
Apr. 11	Southern Pines, N. C.	Mar. 16
Apr. 11	Meadville, Pa. Adv. Mar. 23.	Mar. 23
Apr. 12	Marked Tree, Ark.	Mar. 23
Apr. 13	Abilene, Kan.	Mar. 16
Apr. 14	Tennessee	Mar. 23
Apr. 14	Madison, Wis.	Mar. 23
Apr. 17	Sterling, Col.	Mar. 23
Apr. 18	Washington	Mar. 23
Apr. 19	Preston, Minn.	Mar. 23
Apr. 24	Minneapolis, Minn.	Mar. 23
May 1	Fairport, N. Y.	Mar. 23

INDUSTRIAL WORK

Mar. 28	Phila., Pa.	Mar. 23
Apr. 3	New York, N. Y.	Mar. 23

BUILDINGS

Mar. 27	Nashville, Tenn.	Mar. 16
Mar. 27	Jersey City, N. J.	Mar. 16
Mar. 27	Richmond Hill (Jamaica P. O.) N. Y.	Mar. 23
Mar. 28	Springfield, Mo.	Mar. 9
Mar. 28	Scudders Falls (Wilburtha P. O.), N. J.	Mar. 16
Mar. 28	St. Louis, Mo.	Mar. 23
Mar. 29	Richmond, Ind.	Mar. 23
Mar. 29	Ann Arbor, Mich.	Mar. 23
Mar. 29	Pittsburgh, Pa.	Mar. 23
Mar. 31	Shaker Heights, O.	Mar. 23
Mar. 31	New Haven, Conn.	Mar. 23
Mar. 31	Morgantown, W. Va.	Mar. 2
Mar. 31	Cape Girardeau, Mo.	Mar. 16
Mar. 31	Minneapolis, Minn.	Mar. 23
Mar. 31	Greensburg, Pa.	Mar. 23
Apr. 1	Phila., Pa.	Mar. 16
Apr. 1	St. Louis, Mo.	Mar. 9
Apr. 1	Marshall, Mo.	Mar. 23
Apr. 1	Oakmont, Pa.	Mar. 23
Apr. 1	Wilmington, Del.	Mar. 9
Apr. 3	Crown Point, Ind.	Mar. 9
Apr. 3	East St. Louis, Ill.	Mar. 16
Apr. 3	Cleveland, O.	Mar. 23
Apr. 4	Merrill, Wis.	Mar. 16
Apr. 4	Madison, Wis.	Mar. 16
Apr. 4	Jacksonville, Ill.	Mar. 23
Apr. 4	Charlestown, S. C.	Mar. 23
Apr. 5	Rockford, Ill.	Mar. 2
Apr. 5	Carthage, N. C.	Mar. 16
Apr. 6	Bloomington, Ind.	Mar. 23
Apr. 8	Mayfield, O.	Mar. 23
Apr. 10	Columbia, Mo.	Mar. 16
Apr. 11	Medina, N. Y. Adv. Mar. 23.	Mar. 23
Apr. 11	Hartford, Conn.	Mar. 23
Apr. 14	Duluth, Minn.	Mar. 23
Apr. 21	New Haven, Conn.	Mar. 23
Apr. 21	Alliance, Neb.	Mar. 23
May 6	Hopemont, W. Va.	Mar. 23

FEDERAL GOVERNMENT WORK

Mar. 27	Dredge Pipe—New Orleans, La.	Mar. 16
Mar. 28	Post Office—Salem, Va.	Mar. 9
Mar. 29	Equipment—Boston, Mass.	Mar. 9
Mar. 29	Equipment — San Diego, Cal.	Mar. 9
Mar. 29	Extension to Workroom, etc. —Salem, Ore.	Mar. 9
Mar. 30	Rope—Memphis, Tenn. Adv. Mar. 9 to 23.	Mar. 9
Apr. 3	Galvanized Wire, etc. — Memphis, Tenn. Adv. Mar. 16 and 23.	Mar. 16
Apr. 3	Machine Shop Addition — Tompkinsville, N. Y.	Mar. 23
Apr. 5	Psychiatric Ward—Ft. Sam Houston, Tex. Adv. Mar. 23.	Mar. 23
Apr. 5	Park Restoration — Pelham Bay, N. Y.	Mar. 23
Apr. 5	Roads and Walks—San Diego, Cal.	Mar. 23
Apr. 6	Dredge Pontoons, etc.—Phila., Pa.	Mar. 16
Apr. 10	Hospital—Palo Alto, Cal.	Mar. 9
Apr. 10	Mechanical Equipment — Palo Alto, Cal.	Mar. 9
Apr. 10	Steel Hangars, etc.—Ft. Riley, Kan.	Mar. 23

Bids Close		See Eng. News-Record
Apr. 11	Steel Hull — Nashville, Tenn.	Mar. 16
	Adv. Mar. 16 and 23.	
Apr. 11	Alterations—Boston, Mass.	Mar. 23
	Adv. Mar. 23.	
Apr. 12	Extension — Puget Sound, Wash.	Mar. 9
Apr. 12	Gun Shed, etc.—San Diego, Cal.	Mar. 9
Apr. 17	Dredging — Providence, R. I.	Mar. 23
	Adv. Mar. 23.	
Apr. 19	Radio Towers — Samoa, Tutuila	Mar. 23
Apr. 21	Barges—Pittsburgh, Pa.	Mar. 23
	Adv. Mar. 23.	
May 1	Bridge—Nenana, Alaska	Mar. 16

MISCELLANEOUS

Mar. 27	Sweepers—Montreal, Que.	Mar. 16
Mar. 27	Bituminous Materials—Lansing, Mich.	Mar. 16
Mar. 27	Road Oil, etc.—Minneapolis, Minn.	Mar. 23
Mar. 27	Mine Rail, etc. — Nashville, Tenn.	Mar. 23
Mar. 28	Supplies—Toronto, Ont.	Mar. 16
Mar. 28	Station—Brooklyn, N. Y.	Mar. 16
Mar. 28	Cast Iron Pipe, etc.—Phila., Pa.	Mar. 23
Mar. 28	Ash Handling Equipment — Phila., Pa.	Mar. 23
Mar. 29	Subway—Rochester, N. Y.	Mar. 9
	Adv. Mar. 9 to 23.	
Mar. 29	Fire Pumps, etc.—Norfolk, Va.	Mar. 23
	Adv. Mar. 23.	
Mar. 29	Road Oil, etc.—Milwaukee, Wis.	Mar. 23
Mar. 29	Tar Road Oil—New York, N. Y.	Mar. 23
Mar. 30	Granite Paving Blocks—New York, N. Y.	Mar. 23
Mar. 31	Subway—Cincinnati, O.	Mar. 16
Apr. 3	Excavator, etc.—Minneapolis, Minn.	Mar. 23
Apr. 4	Wharfs, etc.—Miami, Fla.	Mar. 16
	Adv. Mar. 23.	
Apr. 5	Scrapers, etc. — St. Cloud, Minn.	Mar. 16
Apr. 6	Sand—New Orleans, La.	Mar. 23
Apr. 10	Truck—Livingston, Mont.	Mar. 23
Apr. 11	Electric Gantry Cranes — Rochester, N. Y.	Mar. 16
	Adv. Mar. 16 and 23.	
Apr. 12	Foundations — Lincoln, Neb.	Mar. 16
	Adv. Mar. 16 and 23.	
Apr. 29	Cable and Accessories — Melbourne, Australia	Mar. 16
	Adv. Mar. 16 and 23.	

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

O., Cleveland—Plans c.i. main from Kirtland Pumping Sta. to new Baldwin Reservoir. $1,700,000. A. V. Ruggles, City Hall, engr.

Wis., Manawa—Having preliminary plans prepared new waterworks and sewerage systems. L. M. Schindler, 721 Clark St., Appleton, engr.

Ia., Eldora—Defeated $40,000 bonds for waterworks. Project postponed. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., engrs.

Tex., Alpine—Sold $15,000 bonds waterworks plant. B. F. Berkeley, mayor.

Tex., Baird—Voted $60,000 bonds improving waterworks, incl. concrete reservoir and enlarging of mains. Address Mayor. Noted Feb. 16.

Ont., Saulte Ste. Marie—Having plans prepared for 2 gasoline engines for direct connection to pumps in pumping station. $20,000. W. L. McFaul, city engr.

BIDS DESIRED

Mass., North Grafton—March 31 by Dept. Mental Diseases, Boston, cast iron water pipe and fittings for additional water supply, Contr. A, cast iron water pipe and fittings for water distribution system, Contr. B, gates and gate boxes for additional water supply, Contr. A-1, gates and gate boxes for water distribution system, Contr. B-1, all at Grafton State Hospital, here. G. M. Kline, comr.; adv. this issue.

Mass., Springfield—April 10 by Bd. Water Comrs., furnishing cast iron water pipe and special castings. H. M. King, supt.; adv. this issue.

Pa., Ebensburg—March 30, earth impounding reservoir and pumping station. J. L. Elder, boro. engr.; adv. this issue.

Pa., Philadelphia—March 28, by F. H. Caven, dir. pub. wks., 5 complete force draft fans, turbine steam operated, 2,000 r.p.m.; two water softening plants, one at Queens Lane and one at Larners Point, to exceed $50,000; laying 315 ton 24 in. c.i. pipe at Roxbury pumping station, incl. 3,200 cu.yd. excav., 20 cu.yd. concrete, 30 cu.yd. brick, $30,000; 1,050 bags cement, 87 ton sand, 52,000 hard brick, 60,000 common brick, 10,000 buff brick, 75,000 No. 1 fire clay brick, 3,050 spec. fire clay tile, 39,000 lb. fire clay, 21,000 lb. cement, 7,000 lb. asbestos cement, 30 bbl. mineral wool, 15,000 lb. iron castings, 8,000 lb. structural steel, 800 sq. corrugated roofing, $20,000. C. E. Davis, City Hall, engr.

N. C., Albemarle—April 4, by O. J. Sikes, mayor, improving waterworks, incl. concrete dam. G. C. White Co., Durham, engrs.; adv. this issue.

N. C., Lexington—April 18 (change of date), by J. A. Leonard, mayor, improving waterworks. G. C. White Co., Durham, engrs.; adv. this issue.

Tenn., Nashville—March 28, by S. H. McKay, secy. Bd. Pub. Wks., 300 type No. 9 Empire water meters and ¾ in. couplings.

Tenn., Nashville—March 28, by S. H. McKay, city clk., one solution feed chlorinator capable of feeding maximum of 150 lb. liquid chlorine per day.

O., Cleveland—March 25, by Cuyahoga Co., 7,150 ft. 8-16 in. c.i. mains in State Rd. $50,000. Former bids rejected. R. F. MacDowell, Court House, engr. Noted March 16.

O., Cleveland—April 12, at office Commissioner Purchases & Supplies, City Hall, furnishing c.i. pipe for Ansel Rd. to East 107th St., Contr. 9, laying c.i. pipe in same, Contr. 10, furnishing and laying steel pipe in same, Contr. 11; furnishing c.i. pipe for East 107th St. to Fairmount Reservoir, Contr. 13, laying c.i. pipe in same, Contr. 14, furnishing and laying steel pipe in same, Contr. 15; adv. this issue.

O., Youngstown—March 31, by Director Pub. Serv. 300 ton more or less 4-12 in. B & S c.i. pipe and 25 ton 6-12 B & S c.i. specials, two hundred and twenty 4-12 in. hub end gate valves, one 30 in. check valve, 200 roadway valve boxes, 50 fire hydrants, one thousand five hundred ¾ in. corporation cocks, one thousand five hundred ¾ in. curb cocks, one thousand five hundred ¾ in. curb boxes, one thousand two hundred ¾-4 in. water meters, 15,000 ton coal, 300 ton sulphate of alumina and 1,500 ton high calcium lime.

Mich., Ferndale—March 27, by G. Jerome, engr., 1331 Majestic Bldg., Detroit, laying 500 ton 6 in. and 100 ton 8 in. c.i. mains. Village will furnish pipe. Former bids rejected. Noted March 2.

Ill., Kewanee—April 3, 17,250 ft. 6 in. c.i. mains, etc. J. G. Palmer, city engr.; adv. this issue. Noted Feb. 9.

Wis., Milwaukee—March 29, by Central Bd. Purch. 5,267 ton plain straight pipe incl. some double spigot pieces; 353 ton lugged straight pipe; 150 ton special castings; foregoing to be used for 54 in. Chambers St. force main extension from 9th to 35th Sts.; 1,055.96 ton plain straight pipe incl. some double spigot pieces, 75,025 ton lugged straight pipe, 30.284 ton special castings, for 36 in. force main in 29th St. from Chambers St. to Meinecke Ave. G. Staal, city engr.

Wis., Spring Green—April 14, 6-12 in. c.i. mains in various streets, incl. 14 valve boxes, 50,000 gal. steel tank on 125 ft. tower, one 300 gal. P. M. motor and engine driven pump, 1 hand compensator, 1 pressure regulator. $25,000. W. G. Kirchoffer, Madison, engr.

Kan., Neodesha—March 27, by J. J. Carroll, city clk., 6 motor and gasoline engine driven pumps, one 100,000 gal. tank on 100 ft. tower and one 8 panel switchboard. Black & Veatch, Interstate Bldg., Kansas City, Mo., engrs.

Neb., Bethany—March 30, by C. W. Mc Intyre, city clk., deep well pump, 150 gal. per min., high surface centrifugal pump, 250 gal. per min., sinking 12 in. well. $4,000. A. H. Edgren, County Court House, engr.

Neb., Cody—March 31, by M. F. Schwartz, city clk., pipe line, pump, pump house, elevated tank and tower, involving 6,350 ft. 4 in., 4,650 ft. 6 in. and 96 ft. 8 in. c.i. pipe, 100,000 gal. rein.-con. reservoir, etc. Henningson Eng. Co., Natl. Bldg., Omaha, engrs.

Cal., Lodi—April 3, by J. F. Blakely, city clk., 5,800 ft. (more or less) iron or steel pipe, riveted or tubing, 14 guage or equal, dipped in asphaltum and suitable for conveying water at pressure of 20 lb. per sq.in. L. F. Barzellotti, 509 West Elm St., engr.

Ont., Dunnville — March 31, by W. Marshal of Pub. Utilities Comn., 1,200,000 gal. filtration plant with filters, etc. $100,000. E. H. Darling, Home Bank Bldg., Hamilton, engr.

Ont., Ottawa—March 30, by Bd. Control water meters. A. F. Macallum, city engr.

Ont., Seaforth—April 8, by J. A. Wilson, clk., concrete reservoir, pumphouse and elevated tank. $71,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS RECEIVED

O., Lakewood (Cleveland P. O.)—See "Sewers."

Wis., Milwaukee—Opened bids March 14 (a) 200 ton 6 in., 500 ton 8 in., 250 ton 12 in., 400 ton 16 in., (b) 800 ton special castings, from Glamore Pipe & Fdry. Co., Lynchburg, Va., (1) $42.20 for all sizes; U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, (1) $42.75 all sizes, (2) $96 per ton; Natl. Cast Iron Pipe Co., 122 South Michigan Ave., Chicago, (1) $42.55 all sizes; Amer. Cast Iron Pipe Co., 38 South Dearborn St., Chicago, (2) $85 per ton; Nortmann-Duffke Co., 27th Ave., (2) $97 per ton. Noted March 9.

CONTRACTS AWARDED

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains and appurtenances in Van Alst, East and Nott Aves., 1st Ward, here, to Dominick Constr. Co, 246 Bowery, New York, $71,925. Noted March 2.

N. Y., S. I. St. George—Dept. Water Supply, Gas & Electricity, Municipal Bldg., New York, hauling and laying mains and appurtenances in Arthur Hill Rd., here, to J. McAvoy, Jr., 313 East 127th St., New York, 51,834. Noted March 9.

Pa., Tarentum—For removing part of present structure, building 20 x 43 ft. concrete and brick pump house together with foundations for same, also concrete foundation for 2,000,000 gal. steam pump, and wood construction roof for 35 x 44 ft. concrete tank; foundation and superstructure to Mars Constr. Co., Mars; pump to Worthington Pump Co., Oliver Bldg., Pittsburgh.

Minn., Annandale—Waterworks System, 20,600 lin. ft. 4-8 in Class B. c.i. mains, one steel tower and tank, one brick pump house, one 150 gal. triplex pump and motor, 3 to 4 shallow wells; mains to Litchfield Drainage & Constr. Co., Litchfield; tower and tank to Minneapolis Steel & Mchy. Co., 2854 Minnehaha Ave., Minneapolis; pump house to L. R. Ritchie, Annandale; wells, pump, mechanical and electrical equipment to Adams & Graham, Cedar Rapids, Ia.

Mo., Graham—For 4-6 in. mains, to Pittsburgh-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia. $25,000. Noted Feb. 23.

Tex., Groesbeck—Water and sewerage systems to James Contg. Co., Southland Hotel, Dallas, $92,000.

Utah, Salt Lake City—Furnishing 150 ton 30 in. Class A and 6 in. Class B c.i. pipe, f.o.b. Salt Lake City, to U. S. Cast Iron Pipe Co., 2100 St. Louis Ave., Birmingham, Ala., $59.60 per ton.

Sewers

PROPOSED WORK

N. Y., Binghamton — Plans sanitary sewers in 12 streets and storm water sewers in 2 streets. Cost to exceed $25,000. W. E. Weller, city engr.

Va., Petersburg—Plans to improve sewers in various streets. $30,000. L. Budd, city engr.

N. C., Rocky Mount—See "Streets and Roads."

O., Euclid—Soon takes bids concrete, vitr. or segmental block sewers in Mallard Rd., Liberty Ave. from Babbitt Rd. to St. Clair Ave., Nicholas Ave. from Bliss Rd. to Republic Ave., Overlook Rd. from Lakeshore Blvd. to south end, Brewer Ave. from Cut to Midland Rds., Beachview Rd. from Lakeshore Blvd. to Burke Ave., Erieview Ave. from Lakeshore Blvd. to Burke Ave., Independent Rd. from Babbitt Rd. to St. Clair Ave., East 207th St. from Recher Ave. to tracks of New York Central R.R., Locust Ave. from Euclid Ave. to Roseland Rd., Chelsea Ave. from Babbitt Rd. to St. Clair Ave., Abbey St. from East 185th to Clifton Sts., Naumann and Monterey Aves. from East 185th St. to Cut Rd., $250,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Wis., Madison—Making plans gasoline engine, generator, etc., also equipment for south side disposal plant. E. E. Parker, city engr.

Wis., Manawa—See "Waterworks."

Tex., Weatherford—Sold $25,000 bonds sewer extensions. G. M. Parker, city engr.

Wash., Tacoma—Plans combination sanitary and storm trunk sewers (rein.-con.) in part of west end, south side, all of South Tacoma and Manitou, 6 mi. long, $1,000,000;

Sewers (Continued)

Roosevelt Heights, part of McKinley Hill Dist., all of Portland Ave. Dist. south to Battle Swamp, 3 mi. long, $250,000. J. C. Manley, 502 City Hall, engr.

Ont., Toronto—Soon takes bids building sewers in McCaul St. from Elm to Darcy Sts., $3,810; Walpole Ave., from Morley to Highfield Sts., $2,670; Ardagh Rd. from Durie to Jane Sts., $5,232; Foxbar Rd. from St. Clair Ave. north, $11,630; Lane Ave. near Sackville St., $1,415; MacPherson Ave. near Rathnally Ave., $3,880. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Long Island City—March 29, by M. E. Connolly pres. Queens Boro., Queens Subway Bldg., sewers in Armand Pl. from Walter St. to Charlotte Pl., 2nd Ward, Winifred St. from Fresh Pond Rd. to Azalea St., Lilac St. from Winifred St. to Metropolitan Ave., Metropolitan Ave. from point 175 ft. west of Lilac to Azalea Sts., Azalea St. from Metropolitan Ave., to Winifred St., 2nd Ward, 75th St. (Eads Ave.) from 93rd Ave. (Pratt Pl.) to Jamaica Ave., 87th Ave. (Melville Pl.) from 75th St. to Elderts Lane, 87th Rd. (Dean St.) from 75th St. to Elderts Lane, 88th Ave. (Syosset St.) from 76th St. to Elderts Lane, 90th Ave. from 75th St. to Elderts Lane, 4th Ward, receiving basins on northeast corner of 125th St. (South Cochran Ave.) and 101st (Jerome) Ave., 4th Ward.

N. J., Jersey City—April 18, by Passaic Valley Sewerage Comrs., 128 Market St., Newark, continuation and completion Sect. 2, outfall pressure tunnel, beneath portion New York Bay and Jersey City. J. R. Van Duyne, ch. engr.; adv. this issue.

N. J., Ridgefield—March 30, by Mayor and Boro Council sewerage system and appurtenances. Former bids rejected. T. F. Bowe, 110 William St., New York, engr. Noted Feb. 23.

N. C., Greensboro—See "Streets and Roads."

BIDS RECEIVED

O., Cleveland—Opened bids March 9 sewers in Lardet Ave., from A. Hosine, 635 Bradley Court, $4,224; Miles Ave., from A. Gaddeo and N. Carrocio, 343 The Arcade, $10,322, N. Iafarnaro, 3015 Murray Hill Rd., $16,422; East 51st St. from S. Amato & Co., 343 The Arcade, $1,080; Amesbury Ave., from W. McDowell & Son, 10309 Miles Ave., $6,541. Noted March 2.

O. Lakewood (Cleveland P. O.)—Opened bids sewers and water mains in Berea Rd., 3,630 ft. 12-36 ft. vitr. and 1,100 ft. 6 in. c.i. pipe, from Joseph & Kallil, 502 Huron Sq. Bldg., Cleveland, $52,249; A. Joseph, 877 Orange Ave., Cleveland, $54,121.

O., West Park—Opened bids for 4,500 ft. 12-27 in. and 987 ft. 30-36 in. sewer in (1) West 140th St., (2) West 143rd St., from Water & Sewer Impvt. Co., 1350 89th St., Cleveland. (1) $17,285, (2) $14,256; N. Iafarnaro, 2055 Murray Hill Rd., Cleveland, (1) $18,482, (2) $13,457.

CONTRACTS AWARDED

Mass., Boston—Dept. Pub. Wks., Dorchester Brook Sewer in Norfolk Ave., 550 ft. of 106 x 118 in. rein.-con., to C. & R. Constr. Co., 3 Tremont Row, $32,522. Noted Jan. 26.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, 68 Hunterspoint Ave., sewers in Junction Ave., to M. Paino & Co., 32 Court St., Brooklyn, Proposal A, $36,689; Grove St., etc., to F. Spinella, 6102 18th Ave., Brooklyn, $3,441; 14th St. and Liberty Ave., to Kennedy & Smith, Inc., 93 Amity St., Flushing, $749 and $345, respectively. Noted March 16.

N. J., Ridgefield Park—Bd. Commissioners, Municipal Bldg., sewers and treatment works, etc., to Broadhurst Co., Hackensack, $42,000. Noted Feb. 16.

Ill., Park Ridge—Pumps and piping, to T. J. Prendergast, 118 North La Salle St., Chicago, $6,656. Noted Jan. 26.

Ia., Clinton—For 22,979 ft. 8-30 in. (v. s. p.) sewer in Dist. 7, between Main and Commercial Sts., to W. B. Carter, United Bank Bldg., Sioux City, range of bids $0.92 to $5.60, total $49,975. Noted March 9.

Minn., Annandale—Vitr. sewers to Goldberg & Barbarossa, c/o Druar & Milinowski, engrs., 500 Globe Bldg., St. Paul; disposal plant to Adams & Graham, Cedar Rapids, Ia. Noted Feb. 23.

Tex., Kerrville—See "Buildings."

Bridges

PROPOSED WORK

N. Y., Devils Hole (Niagara Falls P. O.)—New York Central R. R., Grand Central Terminal, New York, soon takes bids 120 ft. concrete bridge, 25 ft. wide, over tracks of above railroad here. $38,000. State to appropriate toward cost. F. Williams, Albany, state engr.

N. Y., Schenectady—Bridge Comn. appropriated $480,000 as its share towards construction Schenectady-Scioto bridge.

Pa., Harrisburgh—H. W. Gough, controller Dauphin Co., Room 13, Court House, receives bids about April 1, Juniata Bridge, connecting Perry and Dauphin Counties, 5 span rein.-con. arch, 130 ft. long, 25 ft. wide, $50,000. C. M. Hershey, Court House, engr.

Pa., Uniontown—H. W. Gough, controller Dauphin Co., Court House, Harrisburg, opens bids about May 1, rein-con. bridge, 100 ft. long, to have 3 spans, over Mahantongo Creek, here, $30,000; G. M. Hershey, co. engr.

Wis., Milwaukee—April 4 to vote on $150,000 bonds widening Folsom Pl. viaduct M. Cutler, City Hall, engr.

Kan., Wichita—Sedgwick Co. plans 2,200 ft. rein.-con. viaduct over Atchison, Topeka & Santa Fe R.R. tracks on North Lawrence Rd. $100,000. M. Roseberry, co. engr.

Tex., Cameron—Milam and Robertson Counties making plans 415 ft. steel span cantilever bridge, concrete abutments, approaches, etc., over Brazos River between Milam and Robertson Counties. $120,000. A. F. Mitchell, Cameron, co. engr.

Tex., Hallettsville—Lavaca Co. making plans 175 ft. bridge over Rocky Fork Creek on State Highway 3-B, to have three 50 ft. steel spans, concrete approaches, 16 ft. roadway. W. H. Kolther, co. engr.

Tex., Livingston—Polk and Angelina Counties making plans 260 ft. steel span bridge, rein.-con. piers and abutments, concrete trestle approaches, over Neches River on Highway 35 between Polk and Angelina Counties. $43,109. W. C. Youngs, co. engr.

BIDS DESIRED

N. Y., Monticello—April 1, by C. Unkenholz, steel bridge on Route 4. K. D. L. Niven, clk.; adv. this issue.

Pa., Lenhartsville—April 4, at office J. P. Wanner, controller Berks Co., (Reading), concrete bridge over Maiden Creek between here and Greenwich Twp.; adv. this issue.

Md., Baltimore — March 29 by Bd. Awards, 148 ft. bridge, 66 ft. wide, over Northern Central Railway tracks, Biddle St. A. Christhilf, city highway engr.

North Carolina—March 30, by State Hy. Comn., Raleigh, constructing bridges and culverts on State Project 219, Duplin and Lenoir Counties, 2,017 cu.yd. concrete, 213,150 lb. reinforcing, 5,580 ft. untreated timber piles, etc., $66,000; State Project 677, Scotland Co., 833 cu.yd. concrete, 109,650 lb. reinforcing, 3,660 ft. untreated timber piles, etc., $25,500. C. M. Upham, state highway engr.

Ga., Cedartown—April 1, by State Hy. Dept., First Road Div., Rome, 150-ft. bridge over Euharlee Creek, on Cedartown-Rockmart Highway, Polk Co., 306.3 cu.yd. concrete, 36,139 lb. rein-steel, 100 cu.yd. dry, and 100 cu.yd. wet excav. A. A. Simonton, Rome, engr.

Ga., Dublin—April 4, by Bd. Comrs. Laurens Co., c/o Roads & Revenues, 264 ft. concrete bridge over Rock Creek on Cockran-Dublin Rd., Georgia Federal Aid Project 240, State Aid Project S-12-25 on Route 26. E. N. Parker, Dublin, engr.

Fla., Pensacola—April 18, Comrs. Escambia Co., 5 rein.-con. bridges, 2 box culverts, and grading approaches between here and Flomaton, 970 cu.yd. concrete and 42,000 cu.yd. excav. W. E. Wheat, co. engr.

La., Lake Charles—April 11, by W. J. Prater, pres. Police Jury Calcasieu Parish, approaches to Moss Bluff Highway Bridge across Calcasieu River, near here. Terrell-Bartlett, Calcasieu Bldg., San Antonio, Tex., engrs.; adv. this issue.

Ia., Cherokee—April 4, by Auditor Cherokee Co., 20 box culverts, two I-beam and 1 pony truss bridge. C. Y. Sernstrom, co. engr.

Minn., Rochester—See Streets and Roads.

Indiana—April 4 by J. E. Lyons, dir. State Hy. Comn., Indianapolis, grading approaches and constructing bridge over White River between Knox and Gibson counties; adv. this issue.

Ia., Atlantic—March 28, by Auditor Cass Co., 41 box culverts and extensions, 12 circular culverts, 1 high truss and 3 low truss bridges. H. S. Williams, co. engr.

Ia., Garner—March 30, by Auditor Hancock Co., 40 box culverts, 2 slab bridges and 2 deck girder bridges. C. F. Merten, Garner, engr.

Ia., Keosauqua—April 4, by Auditor Van Buren Co., 70 box culverts, one I-beam span, 1 low truss span and 3 culvert extensions. J. W. Earley, co. engr.

Missouri—See "Streets and Roads."

Missouri—March 30, by State Hy. Dept. at div. office Bethany, one 50 ft. pony truss, two 20 ft. and one 55 ft. rein.-con. slab spans, on road from New Hampton eastward and westward, Federal Aid Project 50, Harrison Co. $26,430. A. Graham, Jefferson City, state highway engr. Noted March 16.

Mo., Carrollton—March 30, by Norborne Land D. D. Co., for 57 bridges. Elliott & Harman Eng. Co., Peoria Ill., engrs.; adv. this issue.

Tex., Belton—April 1, by J. W. Sutton, judge Bell Co. 496 ft. low type rein-con. bridge over Salado Creek on State Highway 2-C. 18 ft. $28,600. S. J. Treadway, co. engr.

Tex., Georgetown—March 31, by F. D. Love, judge Williamson Co. 367 ft. bridge over San Gabriel River at Circleville to have two 120 ft. steel spans one 41 ft. concrete girder on south approach and two 41 ft. girders on north approach, concrete piers and abutments, $60,950; 123 ft. bridge over Bull Branck at Taylor, three 41 ft. concrete girders with concrete bents and abutments, $17,500; 326 ft. bridge over North San Gabriel River, here, two 120 ft. steel spans, 41 ft. girder approach at each end and and embankment fill approaches, concrete piers and abutments, $49,000; 327 ft. bridge over Berrys Creek 4 mi. north of here, one 41 ft. girder approach on south end and four 41 ft. girders on north end, concrete piers bents and abutments, $42,000. R. A. Nichols, co. engr. Noted Oct. 27.

Tex., Nacogdoches—March 30, by J. B. Guinn, judge Nacogdoches and Cherokee Counties, 125 ft. steel through riveted bridge over Angelina River between Rusk and Nacogdoches Counties, $26,000. Lamar, Acker & C. E. Cook, Nacogdoches, co. engrs.

Wash., Chehalis—April 7, by Comrs. Lewis Co., 130 ft. steel bridge on concrete piers and in addition 180 ft. of pile trestle approach, over Newaukum River on Mitchell Rd. E. C. Bechly, Chehalis, engr.

Wash., Raymond—April 18, by State Hy. Comn., Olympia, 225 ft. swinging draw bridge over Willapa River, here. J. Allen, Olympia, state highway engr. Noted Dec. 8.

Ont., Coburg—See "Streets and Roads."

B. C., Victoria—April 17, by City Clerk, fabricating and erecting part of superstructure of Johnson St. Bridge, Contr. 3; adv. this issue.

BIDS RECEIVED

Pa., Mercer—Comrs. Mercer Co., for (1) Fruit Ave. Bridge, in Farrel, (2) Bridges (a) 2001 and (b) 2002, Cool Spring Twp., (3) Bridge 2003, Yellow Creek, from H. J. Malloy, Youngstown, O., (1) $48,000; Mapes Erway Co., Warren, O., (1) $48,441; T. Sheehan, Hagerstown, Md., (1) $52,700; Williamson Constr. Co., Turtle Creek, (2a) $9,940, (2b) $9,940; Trimpey & Whipkey, Casselman, (2a) $9,995, (3) $8,780; Elder & Ferrer, New Castle, (2b) $12,000; Minteer & Anderson, New Wilmington, (2a) $10,508, (3) $8,667; G. F. Patton, Mercer, (2b) $12,007; A. C. Bailey, Phillipsburg, (3) $8,479. Noted Feb. 9.

North Carolina—State Hy. Dept., Raleigh, constructing rein.-con. bridges and culverts on State Project 951, Jackson Co., from W. T. Moore Concrete Products Co., Andrews, $37,610, Booz Loyd & Co., Marion, $38,795, H. A. Wells Constr. Co., Asheville, $40,014; on State Project 962, Macon Co., from Griffith Constr. Co., Atlanta, Ga., $33,113, O. A. Mann, La Grange, Ga., $35,470, Columbia Bridge & Bldg Co., Columbia, Tenn., $35,616. Noted Mar. 2.

Missouri—State Hy. Dept. at div. office Bloomfield, opened bids March 7, one 30 ft., two 40 ft., one 20 ft. and 150 ft. I-Beam spans and one 120 ft. steel truss span, concrete abutments, on road from Cairo to Poplar Bluff, Federal Aid Project 118, Sect. A, Stoddard Co., from Vincennes Bridge Co., Vincennes, Ind., $25,147; Illinois Steel Bridge Co., Laclede Gas Bldg., St. Louis, $25,400; M. E. Gillioz, Monett, $25,637. Noted March 2.

CONTRACT AWARDED

North Carolina—State Hy. Comn., Raleigh, rein.-con. bridges and culverts on State Project 196, Washington Co., to N. L. Teer, Durham, $29,427; State Project 272, Sampson Co., to Striplin, Stroddy & Newell, Corinth, Miss., $46,133; State Project 860, Mitchell Co., to W. H. Anderson Constr. Co., Spruce Pine, $27,938; State Project 566, Moore Co., to N. L. Teer, Durham, $32,998; State Project 377, Pender and Duplin Counties, to Hazell, Connerat & Quist Contg. Co., Savannah, Ga., $56,306; rein.-con. bridge over Haw River, Chatham Co., to R. M. Walker, 713 Grant Bldg., Atlanta, Ga., $52,200. Noted March 9.

Bridges (Continued)

Ia., Sioux City—Missouri Bridge Co., c/o J. Magoun, pres., remodeling bridge, installing two 58 x 78 ft. steel spans, in place of wooden ones, to W. A. Klinger, Warnock Bldg. $63,000.

Wyoming—State Hy. Dept., Cheyenne, one 32 ft. and one 64 ft. I beam bridges, one 100 ft. rein.-con. bridge, etc., over Powder River, on Federal Aid Project 110, 40 mi. west of Casper, in Natrona Co., to Security Bridge Co., 502 North 32nd St., Billings, Mont., $24,648. Noted March 2.

Col., Denver—For 112 ft. rein.-con. bridge 60 ft., over Cherry Creek, on York St., to J. V. Stryker, 1507 Blake St., Denver, $34,850. Noted March 2.

Cal., Placerville—El Dorado Co., rein.-con. bridge over American River, at Chili Bar, 3 mi. from here, to J. May, Napa, $24,490. Noted Feb. 23.

Dams

PROPOSED WORK

N. Y., Saranac Lake—Village Water Bd. and P. Smiths Electric Light & Power Co. plan concrete dam. Address C. L. Dickert, Saranac Lake. Engineer not selected.

Que., St. George—Provincial Government, Quebec, preparing plans for dam on Chaudiere River. $800,000.

BIDS DESIRED

Pa., Ebensburg—See "Waterworks."

W. Va., Clarksburg—April 22, by Water Bd., 2 concrete storage dams. Fuller & McClintock, 170 Bway., New York, engrs.; adv. this issue.

N. C., Albemarle—See "Waterworks."

O., Columbus—April 20, by W. H. Duffy, dir. Pub. Serv., O'Shaughnessy dam, 1,400 ft. long, 70 ft. high, in Scioto River, north of Dublin, 90,000 yd. concrete, 103,050 cu. yd. earth and rock excav., etc., also bridge over top. $2,500,000. Noted Jan. 26.

Railways

BIDS DESIRED

New York—April 3, by Transit Comn., 49 Lafayette St., New York, constructing Sect. 6-A Route 8, part of 14th St.-Eastern Rapid Transit R. R., to be partly a 2 track subsurface railroad and 2 track approach to an elevated railroad extending under Bushwick Ave., private property and partly under and over McKibbin St., Brooklyn. G. McAneny, chn.

Minnesota—W. L. Luce, pres. Electric Short Line Ry. Co., 7th St. and 3rd Ave. N., Minneapolis, receiving bids 2,500 ton 70 lb. relaying rails and 100,000 ties.

CONTRACT AWARDED

Virginia—Virginia Ry. & Power Co., 803 Washington St., Norfolk, will build trolley track loop on Main St. and Commercial Pl., $15,000, also reconstruct trolley tracks on Granby St., $80,000, by day labor. T. N. Jones, mgr.

Excavation and Dredging

BIDS DESIRED

N. Y., Rochester—April 18, by C. L. Cadle, supr. Pub. Wks., Albany, completing excavation of canal channel in Genesee River and placing rock spoil protection along river banks, here, Contr. 202; adv. this issue.

Fla., Miami—See "Miscellaneous."

Wis., Waukoma—March 30, at Court House of Waushara Co., building Springwater-Dayton Ditch, 2½ mi. long, 51,000 cu. yd. excav. C. H. Pratt, pres.

Ia., Charles City—March 28, by T. B. Russell, aud. Floyd Co., building D. D. 20, main line and laterals, 3,200 cu.yd. excav., 95,710 ft., 6-30 in. tile, 3 bulkheads, 3 inlets and 50 y connections. $40,000. J. S. Dawson, Charles City, engr.

Ia., Charles City—April 4, by T. B. Russell, aud. Floyd Co., building D. D. 25, Sect. A, main and laterals, 32,806 ft. 6-32 in. tile, Sect. B, sub-main and laterals, 41,804 ft. 6-28 in. tile (separate bids on each), D. D. 16, 15,938 ft. 6-20 in. tile; D. D. 29, 2,166 ft. 6-12 in. tile; Sub-Drainage D. 14-A, 600 ft. 32 in. tile. $35,000. J. S. Dawson, Charles City, engr.

Ia., Muscatine—April 3, F. W. Johnston, aud. Muscatine Co., cleaning and enlarging Main Ditch and Lateral 2 and digging new ditch for Lateral 1, 78,800 cu.yd. excav.

CONTRACTS AWARDED

Ia., Council Bluffs—Pottawattamie Co., excavating 17 mi. old creek channel, Allen Creek D. D., 315,000 cu.yd. excav., to United Dredging Co., Wisconsin Rapids, Wis., $0.125. Noted Feb. 23.

Neb., Chalco—Chalco-Portal D. D., c/o L. D. Trumble, secy. constructing 4¾ mi. main ditches and 2 mi. lateral ditches, 155,000 cu.yd. excav., to S. A. Briggs & Sons, City Natl. Bank Bldg., Omaha, $0.0975 per cu.yd.

Cal., Richvale—Drainage Dist. 100, constructing ditches, 50,000 cu.yd. excav., to D. Bayles, Biggs, $0.205 per cu.yd.

Streets and Roads

PROPOSED WORK

N. Y., New York—J. Miller, pres. Manhattan Boro., Municipal Bldg., rejected bids opened March 13, repaving Vesey St. from Church to Washington Sts. $180,000. Noted March 9.

N. Y., Rochester—Plans resurfacing Flower City Park, $8,700, Beverly St., $5,550; paving Washburn Park, $7,200, Bloomfield Pl., $10,500; all asphalt; Newcastle Rd., $49,000, bitulithic; sidewalks on Stanton St., $6,300. A. R. Tuttle, city engr.

N. J., Morristown—Bd. Freeholders Morris Co. plan paving 2¼ mi. Madison Ave. from St. Elizabeths Convent to tracks of Lackawanna R.R. at Madison, 1¼ mi. Speedwell Ave. from Morristown to Speedwell. C. A. Matthews, 22 Hanford Pl., Caldwell, engr.

Pa., Susquehanna—Plans paving 7 streets. $25,000 to $30,000.

Va., Norfolk—City council appropriated $25,000 to curb and gutter various streets in Lamberts Point section. J. C. Rew, city engr.

Va., Princess Anne—Princess Anne Co. authorized $500,000 bond issue for roads throughout Seaboard Magisterial Dist. J. F. Woodhouse, clk.

North Carolina—State Hy. Comn., Raleigh, rejected bids opened Feb. 24, clearing, grading, paving and bridging 6.66 mi. State Project 800, Avery Co. Will readvertise. Noted Feb. 2.

N. C., Rocky Mount—Soon takes bids street and sewer improvements. $325,000 bonds authorized. C. H. Harris, clk.

N. C., Troy—Montgomery Co. plans constructing 9.6 mi. Ophir Rd. $35,000. L. V. Edwards, Winston-Salem, engr.

Fla., West Palm Beach—Palm Beach Co. to vote on $25,000 bonds April 18 paving 7 mi. road from Delray to Bocaratone, marl or rock and oil surfacing; $100,000 bonds paving 10 mi. Special Dist. 15, marl. R. F. Goodman, West Palm Beach, engr.

O., Columbus—Franklin Co. making plans paving 3 mi. Potter Rd., 18 ft., waterbound macadam. $89,494. C. C. Lattimer, Court House, engr.

Michigan—State Hy. Dept., Lansing, plans 900 mi. roads at approximate cost of $14,000,000. Projects are as follows:

Alger Co., State Trunk Lines 25-14, 25-5, and 94-1, two mi. bituminous macdam, 7 mi. macadam, 2 mi. one course gravel.

Allegan Co., State Trunk Lines 13-22, 89-1, 89-2, 89-3 and 89-4, two mi. pavement, 8¾ mi. gravel.

Alpena Co., State Trunk Lines 10-9 Sect. C, and 10-22, 4¾ mi. gravel.

Antrim Co., State Trunk Lines 13-33, 13-25 and 13-26, ½ mi. pavement, 4 mi. gravel.

Baraga Co., State Trunk Lines 69-4 and 28-9, Sect. B, 8 mi. grading, 7 mi. gravel or stamp sand.

Barry Co., State Trunk Lines 37-5, Sects. A and B, 37-5, Sect. C, 37-1, 37-7, 37-2, Sect. A, and 79-1, 2½ mi. pavement, 10½ mi. gravel.

Bay Co., Federal Aid Rds. 63 and 83, 9½ mi. pavement, 4½ mi. grading.

Benzie Co., State Trunk Lines 11-45, 11-29, 22-4, 22-6 and 22-12, Sect. A, 17.25 mi. gravel.

Calhoun Co., Federal Aid Rd. 29, 10 mi. pavement.

Cass Co., State Trunk Lines 60-1, Federal Aid Rds. 47 Sect. A, 49 Sect. B, 3½ mi. pavement, 6½ mi. gravel, 6 mi. grading.

Charlevoix Co., Federal Aid Rd. 71, State Trunk Lines 13-11, Sect. A and 57-1, Sects. B and C, 7 mi. grading, 12¼ mi. gravel.

Cheboygan Co., State Trunk Lines 10-33 Sect. A, 18-19 Sect. A, Federal Aid Rd. 72, 15½ mi. gravel.

Chippewa Co., State Trunk Lines 12-35, 25-12 Sect. A, 25-15 and 48-7, 9½ mi. macadam, 21 mi. grading.

Clare Co., State Trunk Lines 20-11, 20-12 Sect. A, 20-7 Sect. A, 14-5 and 14-10 Sect. A, 14.25 mi. gravel.

Clinton Co., Federal Aid Rds. 39 and 68, 21 mi. pavement.

Crawford Co., State Trunk Lines 18-2, Federal Aid Rd. 64, 9 mi. gravel.

Delta Co., State Trunk Lines 35-3 and 35-9, 7½ mi. macadam.

Dickinson Co., State Trunk Lines 41-1 Sect. A, 90-1 Sect. B, 12-39, 12-38 and 12-36, 8 mi. gravel, 2½ mi. stone base, 2 mi. bituminous macadam.

Eaton Co., State Trunk Line 29-1, Sect. A, 1 mi. gravel.

Emmet Co., State Trunk Lines 13-31, 13-32 and 11-16, 6 mi. pavement.

Genesee Co., State Trunk Lines 65-1 and 87-2, Federal Aid Rd. 79, 6¼ mi. pavement.

Gladwin Co., State Trunk Lines 18-5, 18-17, 18-20 and 61-2, 9½ mi. gravel, 5 mi. pavement.

Gogebic Co., State Trunk Line 12-25, 2½ mi. bituminous macadam.

Grand Traverse Co., State Trunk Lines 13-13, 11-12 Sect. B, 22-9, 11-38, 4½ mi. gravel, 1¾ mi. pavement, 1½ mi. bituminous macadam.

Gratiot Co., State Trunk Lines 14-23 and 46-7 Sect A, 9½ mi. gravel.

Hillsdale Co., State Trunk Lines 34-5, 34-2, 34-6 and 64-1, 7 mi. gravel, 2¼ mi. pavement.

Houghton Co., State Trunk Line 26-1, 2½ mi. gravel.

Huron Co., State Trunk Lines 31-5 and 35-11, 2¾ mi. pavement.

Ingham Co., State Trunk Lines 14-36, 29-5 and 14-15, Federal Aid Rd. 68, 3½ mi. pavement, 1 mi. gravel.

Ionia Co., State Trunk Lines 39-3, 39-7, 39-5 Sect. B, 41-20, 16-12, Federal Aid Rd. 86, 9 mi. gravel, 2¾ mi. pavement.

Iron Co., State Trunk Lines 69-3 and 12-37 Sect. A, 16 mi. gravel.

Isabella Co., State Trunk Lines 24-19, 20-12 Sect. B, 14-29, 10¼ mi. gravel.

Jackson Co., State Trunk Line 14-26, Federal Aid Rd. 75, 3 mi. gravel, 4½ mi. pavement.

Kalamazoo Co., Federal Aid Rd. 52, 6½ mi. pavement.

Kalkaska Co., State Trunk Lines 13-19, 13-34, 13-35 and 13-36, 7 mi. gravel.

Kent Co., State Trunk Lines 37-6, 13-21 and 13-37, Federal Aid Rd. 57, 9 mi. pavement, 1½ mi. bituminous surface.

Lake Co., State Trunk Lines 20-4 and 20-17, 12 mi. gravel.

Lapeer Co., State Trunk Lines 21-17, 36-3, 36-4, 38-4, Federal Aid Rd. 85, 4½ mi. pavement, 4½ mi. gravel.

Leelanau Co., State Trunk Lines 22-11 Sect. A, 22-5 Sect. A, 8½ mi. gravel.

Lenawee Co., Federal Aid Rd. 44 Sects. C and D, 6 mi. pavement.

Livingston Co., State Trunk Lines 65-4, 65-3 Sect. A, 65-7 Sect. B, 16-16, 49-5 and Federal Aid Rd. 69, 13½ mi. gravel, 2½ mi. pavement.

Mackinac Co., State Trunk Line 48-8, Federal Aid Rd. 80, 52 mi. gravel.

Macomb Co., State Trunk Lines 19-14, 59-1 Sect. B, Federal Aid Rd. 76, 4 mi. Bituminous surface, 9¾ mi. pavement.

Manistee Co., State Trunk Line 11-17, Sects. A and B, 2½ mi. macadam.

Mason Co., State Trunk Lines 20-21, 11-37 and 20-22, 1½ mi. pavement, 1 mi. gravel.

Mecosta Co., State Trunk Lines 86-1 and 24-20, 8 mi. gravel.

Midland Co., State Trunk Lines 24-9, 20-20 and 18-13, 13 mi. gravel, ½ mi. pavement, 5½ mi. grading.

Missaukee Co., State Trunk Lines 14-3 Sect. A, 14-16 Sect. B, 5 mi. gravel.

Monroe Co., State Trunk Lines 65-6, 50-4, Federal Aid Rds. 50 Sect. A, 73 and 84, 13 mi. pavement, 23½ mi. grading.

Montcalm Co., State Trunk Lines 46-2, 46-5, 46-13, 46-14 Sect. A, and 86-2, 18¼ mi. gravel.

Montmorency Co., State Trunk Lines 32-6 Sect. B, 32-4 Sect. A, 5 mi. grading, 2½ mi. gravel.

Muskegon Co., State Trunk Lines 11-5 and 41-4, 2 mi. macadam, 1 mi. gravel.

Newaygo Co., State Trunk Lines 54-12, 54-1, 24-17 and 24-24, 2 mi. pavement, 10¼ mi. gravel.

Oakland Co., State Trunk Lines 36-1 and 59-2, 3 mi. pavement.

Oceana Co., State Trunk Lines 41-4, 41-5 and 11-25, 2¾ mi. gravel, 6 mi. pavement.

Ontonagon Co., State Trunk Line 26-4, Sect. A, 1½ mi. gravel.

Osceola Co., State Trunk Line 20-19, ½ mi. pavement, 1 mi. gravel.

Oscoda Co., State Trunk Line 33-3 Sect. B, 3 mi. gravel.

Otsego Co., State Trunk Line 32-2 Sect. C, Federal Aid Rd. 64, 7 mi. gravel.

Ottawa Co., State Trunk Lines 11-24, 51-2 Sect. A, 16-14, 16-5, 12 mi. pavement, 4 mi. grading.

Roscommon Co., State Trunk Lines 76-4, 18-16, 14-13 Sect. A, 14-11, 13½ mi. gravel.

Saginaw Co., State Trunk Lines 47-10, 47-2, 47-3, Federal Aid Rds. 77 and 78, 14½ mi. pavement, 4 mi. gravel.

Sanilac Co., State Trunk Lines 19-15, 19-12, 19-9, 27-9 and 27-18, 28 mi. gravel, 3 mi. pavement.

Schoolcraft Co., State Trunk Lines 25-13, 25-8, 27-7, 12-40 and 77-3, 4 mi. gravel, 20 mi. grading, 3 mi. macadam.

Shiawassee Co., State Trunk Lines 47-8 and 21-10 Sect. A, Federal Aid Rd. 54, 13 mi. pavement.

Streets and Roads (Continued)

St. Clair Co., State Trunk Line 27-16 Sect. A, Federal Aid Rd. 65, 14¾ mi. pavement.

St. Joseph Co., Federal Aid Rd. 66, 9 mi. pavement.

Tuscola Co., State Trunk Lines 81-2, 81-4 and 81-5, 4½ mi. gravel, 2 mi. pavement.

Van Buren Co., State Trunk Line 17-5, Federal Aid Rd. 47 Sect. D, 8¼ mi. pavement.

Washtenaw Co., State Trunk Line 65-2, Federal Aid Rds. 74, 82, 67 Sects. A and B, 11¼ mi. pavement, 20½ mi. grading.

Wayne Co., Federal Aid Rds. 62 and 82, 1 mi. pavement, 4 mi. grading.

Wexford Co., State Trunk Lines 42-2, 42-3, 42-1 Sect. C, and 13-9 Sect. B, 5½ mi. gravel. F. F. Rodgers, state highway comr.

Mich., Detroit—Having plans prepared paving Beechwood Ave. from Tireman to Martindale Aves., $63,230, 12th St. from Fenkell to Pilgrim Aves., $25,170, Canton Ave. from Harper to Mound Aves., $7,020, Northlawn Ave. from Grand River to Fullerton Aves., $36,330, Ogden Ave. from Michigan Ave. north to Lot 460, $8,500, Cloverlawn Ave. from Grand River to Fullerton Aves., $38,935, Duncan Ave. from Van Dyke to Maxwell Aves., $9,195, Geneva Ave. from Highland Park to Log Cabin Aves., $9,200, Berkeley Rd. from Cambridge to Chesterfield Aves., $9,150, Cambridge Rd. from Canterbury to Livernois Aves., $30,890, Canterbury Rd. from Seven Mile Rd. to Pembroke Ave., $60,160, Petoskey Rd. from Cambridge to Canterbury Aves., $23,660, Beaver St. from McKinley to Vinewood Aves., $5,780, Wilson Ave. from Boston to Glynn Aves., $5,300, Clements Ave. from 12th St. to Linwood Ave., $41,820, LeMay Ave. from Shoemaker to Harper Aves., $36,870, G. A. R. St. from Hammond to Military Aves., $5,510, Reissman Ave. from Crawford to Rademaker Aves., $7,980, Ogden Ave. from Arnold to Michigan Aves., $13,550, Renville Ave. from Arnold to Michigan Aves., $11,225, Pelouze Ave. from Livernois to Martin Aves., $23,225, Kingston Rd. from Seven Mile Rd. to Cambridge Ave., $10,610, Parkside Ave. from Canterbury to Cambridge Aves., $13,940, Sherbourne Rd. from Canterbury Ave. to Kingston Rd., $10,500, Sherry Lawn Ave. from Grand River to Cortland Aves., $22,775, all 3 in. sheet asphalt on concrete. C. W. Hubbell, city engr.

Ill., Lake Forest—Making plans paving various streets, vitr. brick on concrete. $25,000. N. N. Campbell, 4 Market Sq., engr.

Ill., Lombard—Making plans paving various streets, vitr. brick and asphalt on concrete. $140,000. Eng. Serv. Co., 336 Mercantile Bldg., Aurora, engrs.

Ill., Naperville — Making plans paving various streets, vitr. brick on concrete. $30,000. C. A. Ashley, 1st Natl. Bank Bldg., Aurora, engr.

Wis., Manawa—Making plans paving 1 mi. Bridge and Depot Sts., 30 ft., 1 course concrete with combined curbs and gutters. $25,000-$30,000. F. F. Mengel, Wisconsin Rapids, engr.

Wis., Watertown—Making plans paving 1 mi. 3rd, Nashotah, William and Hyland Sts., 22-25 ft., 1 course rein.-con., combined concrete curbs and gutters. $25,000. A. Kraeft, City Hall, Madison, engr.

Ia., Clinton—Rejected bid paving 1 mi. 9th St. from Main St. north to city limit, Paving Dist. 2. $51,000. Noted Mar. 9.

Kan., Hutchinson—Reno Co. soon takes bids paving 5 mi. Sect. C, 5 mi. Sect. D and 5 mi. Sect. E, Federal Aid Project 27, also ½ mi. road between Project 15 and 5th Ave., W. W. A. Stacey, resident engr.

Mont., Glendive—Plans paving 1.5 mi. various streets. $45,000. A. Colin, clk.

Missouri—State Hy. Dept., Jefferson City, plans 5.142 mi. road from Butler to Amoret, State Aid Project 20.151, Bates Co., 17,947 cu.yd. earth and 780 cu.yd. rock excav., 7,300 cu.yd. borrow, 194.4 cu.yd. concrete masonry, etc., $25,000; 6.693 mi. road north and south through Hickory Co., Federal Aid Project 69, 27,567 cu.yd. earth and 2,738 cu.yd. rock excav., 8,621 cu.yd. borrow, 190 cu.yd. concrete masonry, etc., $34,034. A. Graham, state highway engr.

Mo., Joplin—Soon takes bids widening and removing buildings on 3 blocks West 5th St. $30,000. S. Ashcraft, Joplin, engr.

Tex., Abilene—Taylor Co. making plans grading and gravel surfacing 11.4 mi. State Highway 7 from Tuscola to Coleman Co. line, 16 ft. $65,000. W. A. Riney, Abilene, engr.

Tex., Dallas—Dallas Co. plans repaving 0.8 mi. Dallas-Oak Cliff Viaduct on State Highway 1, 4,000 ft. asphalt or bitulithic. $42,000. J. F. Witt, c/o Nagle-Witt Rollins Eng. Co., Courthouse, engr.

Tex., Greenville—Hunt Co. making plans scarifying, surfacing and topping 12.16 mi. State Highway 42 from Shepherd to Rains Co., 5,138 cu.yd. cover stone, 74,923 gal. bitumen, 24,429 cu.yd. crushed stone base, $178,600. A. D. Duck, c/o engr.

Tex., Marshall — Harrison Co. making plans grading and gravel surfacing 10.8 mi. State Highway 8 from Marshall to Marion Co. line, 33 acres clearing, 70,400 cu.yd. borrow and 31,494 cu.yd. roadway excav., 393 cu.yd. concrete, 5,372 lin.ft. creosoted timber piling, 13,982 cu.yd. gravel surfacing, 28,829 lb. reinforcing, etc. $110,000. G. A. McClellan, c/o engr.

Tex., McKinney—Collin Co. making plans and soon takes bids surfacing 12.37 mi. State Highway 6 from point 4 mi. north of here to Grayson Co. line, 57,730 gal. asphalt, 15,880 cu.yd. macadam chats. $28,950. F. W. Cawthon, c/o engr.

Col., Denver—Rejected bids received March 14 improving 2½ mi. Bway. Paving Dist. 6, slag base, 2 in. wearing surface, also 10-30 in. vitr. storm sewers. $174,450. J. B. Hunter, City Hall, engr. Will readvertise in about 2 weeks. Noted March 9.

Washington—State Hy. Dept., Olympia, plans grading 8.5 mi. Natl. Park Highway from Alder to Elbe, Pierce Co. J. Allen, state highway engr.

Cal., Alturas — Modoc Co. Comn. soon takes bids grading 3.41 mi. Fort Bidwell Unit of Fandango Highway, involving 26,435 cu.yd. excav. T. A. Walls, secy.

Cal., Fresno—C. P. Jensen, co. surv., submitted estimates of cost to Bd. Supervs. Fresno Co., to complete 59.57 mi. highways. Cost of constructing all roads with 5 in. asphaltic concrete, $1,250,970. Cost of 31.61 mi. asphaltic concrete, 20.49 mi. asphaltic macadam and 7.47 mi. gravel macadam, $1,064,962. Money to be raised by direct tax.

Cal., San Jose—Santa Clara Co. having plans prepared constructing 3 mi. Grand Rd., 3 mi. Alviso-Santa Clara Rd., 1 mi. Lincoln Ave., 7 mi. Uvas Rd. and remainder of Gilray Rd. $300,000. I. Ryder, Courthouse, engr.

Cal., San Rafael—Marin Co. instructed G. M. Dodge, c/o surv., to prepare estimates of cost constructing 10 mi. permanent highways in Dists. 1 and 2.

Ont., Amherstburg—Plans concrete or tarvia pavement on Seymore St. $40,000.

Ont., Coburg—Northumberland and Durham Counties voted $120,000 for graveling and macadamizing roads, building bridges and concrete culverts, etc. G. Greer, Coburg, supt. and engr.

Ont., Dresden—Takes bids about May 1, paving St. George and North Sts., rein.-con. $77,000. Prices wanted on materials. J. T. Bridgewater, Dresden, engr.

Ont., Hamilton—Wentworth Co. plans to expend $60,000 for 2-2½ mi. roads in vicinity of Beamsville and Grimsby, macadam. T. R. Allison, supt. and engr.

Ont., Harrow—Good Rds. Com. Essex Co. takes bids about end of April, improving roads with tarvia. $70,000. J. H. Madill, Harrow, engr.

Ont., Toronto—Plans asphaltic concrete pavements on Glenlake Ave. from Indian Grove to Keele St., 24 ft., on 5 in. concrete with brick gutters, $5,439, and from Keele St. to Oakmount Rd., 28 ft., on 5 in. concrete, brick block gutters, $14,640, Thome Crescent from Mt. Royal Ave. to Burlington Crescent, 28 ft., on 5 in. concrete, brick block gutters, $4,278, Woodbine Ave. from Du Vernet to Burgess Aves., 42 ft., on 6 in. concrete, brick gutters, $14,610; brick block pavement on Thome Crescent from Mt. Royal Ave. to point 250 ft. north, 28 ft., on 5 in. concrete, $8,065; concrete sidewalks on Glenforest Rd. from Bocastle to Roman Aves., $4,675, Marlborough Pl. west of Yonge St., $1,224; concrete curbs on Patricia Rd., Boston and Glenlake Aves., $614; asphalt pavements in Chestnut Park, 21 ft., brick gutters, $49,989, Hayden St. from Yonge to Church Sts., 22 ft., on 6 in. concrete, brick block gutters, concrete curbs, $17,283, Lawlor Ave. from Kingston Rd. to Barwick Ave., 28 ft., on 5 in. concrete, brick gutters, concrete curbs, $28,367; 6 in. concrete pavement on lane east of Sackville St., 10 ft., concrete curbs, $2,057, lane west of Markham St., 11 ft., concrete curbs, $6,009, lane south of College St., 8-11 ft., concrete curbs, $2,508, lane north of Grenadier Rd., 13-14 ft. wide, concrete curbs $4,961. R. C. Harris, city engr.

Ont., Toronto—Takes bids in early spring for concrete sidewalks on Raglan Ave., 614, Glendonwynne Rd., Glebholme Blvd. Gifford and Nasmith Sts., $15,150; asphalt pavements on Fairford Ave. from Morley to Coxwell Aves., $24,300, Maughan Crescent and Hemlock Ave., $16,589, Wabash Ave., $36,197; concrete pavements on St. Clair Ave., $35,350; concrete curbs on Maughan Crescent, Fairford and Hemlock Aves., $3,500. R. C. Harris, city engr.

Ont., Windsor—Plans to re surface concrete roads with asphalt, as they require it; several miles will be surfaced this year. $250,000. M E. Brian, city engr.

BIDS DESIRED

Rhode Island—March 29 by State Bd. Pub. Roads, Providence, furnishing and applying 150,000 gal. asphaltic oil or refined tar; adv. this issue.

N. Y., Fairport—May 1, by Bd. Trustees paving 2,500 ft. West Ave., bitulithic on concrete. $44,000. Hophuis & Field, Rochester, engrs.

N. Y., Long Island City—March 30, by M. E. Connolly, pres. Queens Boro., Queens Subway Bldg., grading, curbing and laying sidewalks on Tiemann Ave. from Edson St. to Kingsland Ave., 2nd Ward; grading 107th Ave. (Atlantic St.) from 153rd St. (Railroad Ave.) to 159th St. (Prospect St.), 159th St. from 107th Ave. to South Rd., 107th Ave. (Atlantic St.) from 159th St. (Prospect St.) to 160th St. (Washington St.), 159th St. (Prospect St.) from 107th Ave. (Atlantic St.) to 108th Ave. (Cumberland St.), 4th Ward; grading, curbing, laying sidewalks and paving 160th (Washington) St. (Hillside Court) from Hillside Ave. to point about 215 ft. southerly, bituminous macadam; curbing, recurbing, flagging, reflagging and paving 14th St. from Van Alst to Ely Aves., 1st Ward, granite block on concrete.

N. Y., Long Island City—March 31, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., repairing sheet asphalt pavements 1st and 2nd Wards; grading Newtown Rd. from 11th Ave. to Pattersou (Jamaica) Ave.; grading and laying sidewalks on Sunswick St. from South Jane St. to Harris Ave.

N. Y., New York — March 28, by H. Bruckner, pres. Bronx Boro, repaving White Plains Rd. from Burke Ave. to East 233rd St., granite blocks; paving Harlem River Terrace from Fordham Rd. to point 490 ft. south, bituminous concrete; grading and setting curbstones, etc., on Maclay, Hone and Tomlinson Aves., White Plains Ave. from Westchester to Watson Aves., 172nd St. between Sheridan Ave. and Grand Blvd., Sackett Ave. from Bronxdale to Colden Aves.; rebuilding existing concrete culvert across and under Gun Hill Rd. near Wickham Rd.; storm water drain in Dyre Ave. between 233rd St. and city line.

N. Y., New York—March 30, by J. Miller, pres. Manhattan Boro. Municipal Bldg., repaving Division St. from Allen to Canal Sts., granite block on concrete; Bleecker St. from Carmine St. to 7th Ave., Bleecker St. from Grove to Bank Sts., sheet asphalt on concrete; widening and repaving Grand St. curb to rail, Bway. to Sullivan St., Grand St. curb to curb, Sullivan to Varick Sts., granite block on concrete; 33rd St. from Madison Ave. to Bway., sheet asphalt on concrete.

N. J., Freehold—April 5, by Bd. Freeholders Monmouth Co. reconstructing Sect. 2 Adelphia-Farmingdale Rd. G. D. Cooper, 60 Broad St., Red Bank, civil engr.; adv. this issue.

N. J., Freehold—April 5, by Bd. Freeholders Monmouth Co. constructing State Highway Route 4, Sect. 10, from Roseld Ave., Deal, to Shadow Lawn. G. K. Allen, Jr., Red Bank, co. engr.; adv. this issue.

N. J., Sea Girt—April 5, by Bd. Freeholders Monmouth Co. (Freehold) constructing State Highway Route 4, Sect. 12, Sea Girt Ave., here, reinforced cement concrete. G. K. Allen, Jr., Red Bank, co. engr.; adv. this issue.

N. J., Trenton—April 4, by Mercer Co. constructing Sect. 3, Route 2, State Highway System, South Broad St. H. F. Harris, co. engr.; adv. this issue.

Pa., Meadville — April 11, paving and curbing streets and building rein.-con. culverts. R. L. Phillips, city engr.; adv. this issue.

North Carolina—March 30, by State Hy. Comn., Raleigh, grading and hard surfacing, concrete or asphaltic, Projects 428, 539, 677, 790 and 493; waterbound macadam paving Project 378; grading, topsoil, sand-clay or gravel surfacing, Projects 138 A, 219 and 544; adv. this issue.

N. C., Greensboro—April 2, by P. C. Painter, city mgr., hard surfacing 5 mi. streets.

N. C., Greensboro—April 3, by W. L. Murray, city clk., 180,000 sq.yd. paving, 1.5 mi. storm sewers, etc. P. C. Painter, city mgr.; adv. this issue.

S. C., York—April 6, by Comrs. York Co., constructing 2.7 mi. York-Symrna Rd. between Hickory Grove and Bullocks

Streets and Roads (Continued)

Creek, 32,015 cu.yd. excav. and 8,470 cu.yd. topsoiling.

Ga., Cedartown—April 1, by State Hy Dept., First Road Div., Rome, grading and surfacing 1 mi. Cedartown-Rockmart Highway, 2,504 cu.yd. chert surfacing, 5,718 cu.yd. borrow, 11,573 cu.yd. earth and 674 cu.yd. solid rock excav. Cement furnished by state f.o.b. Rock Mart. A. A. Simonton, Rome, engr.

Tennessee—April 14, by State Hy. Dept., Nashville, grading and surfacing 9.98 mi. Federal Aid Project 79, Brownsville to Madison Co. line, Haywood Co., 18 ft., $250,000; 15.65 mi. Federal Aid Project 62, from Laurenceburg to Wayne Co. line, Laurence Co., 16 ft., $300,000. D. Q. McComb, State Highway Dept., engr.

Ohio—March 27, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Trumbull Co., Sect. "L" Niles-Ashtabula Rd., 3.13 mi., brick, $155,403, state to furnish brick, $117,172.

Union Co., Sect. "K" Marysville-Marion Rd., 1.952 mi., bituminous macadam, $45,256.

Union Co., Sect. "H" Marysville-Kenton Rd., 4.139 mi., bituminous macadam, $90,326.

Wayne Co., Sect. "C" Millersburg-Wooster Rd., 1.42 mi., brick, $51,195, state to furnish brick, $39,196, rein.-con., $45,603. L. C. Herrick, dir. highways.

Ohio—March 29, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Geauga Co., Sect. "C" Cleveland-Burton Rd., 4.97 mi., waterbound macadam, $112,047.

Hancock Co., Sect. "Van Buren" Findlay-Bowling Green Rd., 0.5 mi., bituminous concrete, $32,587.

Marion Co., Sect. "G-3" Marion-Marysville Rd., 2.057 mi., bituminous concrete, $54,892, bituminous macadam (asphalt or tar), $45,638.

Muskingum Co., Sect. "P" Zanesville-Dresden Rd., 3.91 mi., brick, $168,845, state to furnish brick, $130,069, rein.-con., $141,991, bituminous macadam, $138,425. L. C. Herrick, dir. highways.

Ohio—April 8, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Brown Co., Sect. "Fayetteville" Milford-Hillsboro Rd., 0.61 mi., bituminous macadam, $16,146.

Brown Co., Sect. "Hammersville" Cincinnati-West Union Rd., 0.637 mi., bituminous macadam, $14,780.

Highland Co. Sect. "R" Hillsboro-Washington Rd., 4.942 mi., bituminous macadam, $129,727.

Lorain Co., Sect. "K" Ashland-Oberlin Rd., 2.05 mi., bituminous macadam, $44,871, rein.-con., $50,625.

Meigs Co., Sect. "Middleport" Middleport-Portland-Jackson Rd., 0.524 mi., brick, $26,682, state to furnish brick, $21,850.

Carroll Co., Sect. "L" Canton-Steubenville Rd., 5.842 mi., bituminous macadam, $221,129.

Logan Co., Sect. "Lakeview," Bellefontaine-Wapakoneta Rd., 0.678 mi., rein.-con., $22,300.

Logan Co., Sect. "Huntsville" Bellefontaine-Lima Rd., 0.549 mi., rein.-con., $23,123.

Logan Co., Sect. "A" Bellefontaine-Marysville Rd., 5.599 mi., rein.-con., $233,159.

Logan Co., Sect. "Zanesfield" Bellefontaine-Marysville Rd., 0.317 mi., rein.-con., $17,491. L. C. Herrick, dir. highways.

O., Euclid—April 3, grading, curbing and paving Oakhill Dr., Yosemite Dr. from Beverly Hills to Argyle Drives, Glenbrook Blvd. from easterly to westerly lines, Idlehurst Dr. from Chatworth to Argyle Drives, Beverly Hills Dr. from Glenbrook Blvd. to Argyle Dr., Hawthorne Dr. from Beverly Hills Dr. to easterly end, and Chatworth Dr. from Glenbrook Blvd. to Beverly Hill subdivision, vitr. brick, sheet asphalt, asphaltic concrete or bituminous macadam. $100,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ind., Jeffersonville—April 3 by Comrs. Clark Co., grading and improving 6,550 ft. Columbus A. Jackson Rd., Carr Twp., 7,113 ft. William Creamer Rd., Union Twp. and 1,700 ft. R. D. Riley Rd., Charleston Twp. $28,913. T. L. Stoner, aud.

Michigan—April 3, by State Hy. Dept., Lansing, grading and surfacing 8.977 mi. State Trunk Line Rd. 10-31, Iosco Co., 27,089 cu.yd. excav., 84,266 sq.yd. gravel; 3.375 mi. State Trunk Line Rd. 10-21, Sect. B, Iosco Co., 8,190 cu.yd. excav., 31,678 sq.yd. gravel.

Michigan—April 5, by State Hy. Dept., Lansing, grading and surfacing 2.472 mi. State Trunk Line Rd. 13-27, Sect. C, Antrim Co., 4,753 cu.yd. excav., 23,208 sq.yd. gravel.

Illinois—March 31, by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving 4.8 mi. Route 2, Sect. 12, Union Co., 18, 19 and 20 ft.; 8.52 mi. Route 2, Sect. 13, Union Co.; 6.28 mi. Route 2, Sect. 14, Union-Pulaski Co.; 7.05 mi. Route 2, Sect. 16 Pulaski Co., foregoing 18 and 20 ft.; 3.67 mi. Route 2, Sect. 15, Pulaski Co.; 4.72 mi. Route 3, Sect. 57, Jersey-Greene Co.; 6.05 mi. Route 4, Sect. 4, Will Co.; 3.04 mi. Route 5, Sect. 3, Cook Co.; 3.96 mi. Route 5, Sect. 4, Du Page Co.; 5.16 mi. Route 5, Sect. 5, Du Page Co.; 5.96 mi. Route 7, Sect. 3, Henry Co.; 5.51 mi. Route 10, Sect. 5, Champaign-Piatt Co; 4.24 mi. Route 10, Sect. 6, Piatt Co.; 1.75 mi. Route 10, Sect. 7-N, Piatt Co.; 4.81 mi. Route 10, Sect. 12, Macon Co.; 7.23 mi. Route 21, Sect. 1, Cook-Lake Co.; 2.27 mi. Route 21, Sect. 4, Lake Co.; 2.56 mi. Route 22, Sect. 14, Will Co.; 6.97 mi. Route 33, Sect. 5, Jasper Co.; all foregoing 18 ft.; 13.32 mi. Route 2, Sects. 12 and 13, Comb. A; 17 mi. Route 2, Sects. 14, 15 and 16, Comb. B; 30.32 mi. Route 2, Sects. 12, 13, 14, 15 and 16, Comb. C; 9.12 mi. Route 5, Sects. 4 and 5, Comb. D; 12.16 mi. Route 5, Sects. 3, 4 and 5, Comb. E; 11.5 mi. Route 10, Sects. 5, 6 and 7-N, Route 10, Comb. F; 9.5 mi. Route 21, Sects. 1 and 4, Comb. G; alternate bids on portland cement concrete, 4 in. monolithic brick on concrete, bituminous concrete, C1, C2, C3 or CT with binder course on concrete, same without binder course, 3 in. bituminous filled brick on waterbound macadam base, sheet asphalt on waterbound macadam base, bituminous concrete, C1, C2, C3 or CT, without binder course on waterbound macadam base, penetration macadam on waterbound macadam base. Grading 0.27 mi. Route 1, Sect. G, Adams Co., 30 ft.; building 3 concrete culverts. Route 4-A, 1 on 5-A, and 1 on 15, Sect. V, McDonough Co., 24 ft. roadways. C. Older, ch. highway engr.

Ill., Hamilton—March 29, paving 3 blocks Bway., asphaltic macadam; adv. this issue.

Wisconsin—March 29, by State Hy. Comn. at office of Iowa Co. Highway Comr., Court House (Dodgeville), grading and surfacing 4.26 mi. Dodgeville-Mineral Point Rd., Wisconsin Project 180, 14,127 cu.yd. earth, 2,325 cu.yd. loose and 1,800 cu.yd. solid rock excav., 249 cu.yd. borrow, 363.61 cu.yd. concrete, 6,120 cu.yd. crushed stone alternate bids on 6,120 cu.yd. mine tailings.

Wis., Madison—April 14, paving 10.5 mi. various streets, 42,000 sq.yd. asphalt, 42,000 sq.yd. one course concrete, combined concrete curb and gutter. $450,000. E. E. Parker, City Hall, engr.

Wis., Manitowoc—April 3, paving 2 mi. North 18th, Huron, Phillipen, Manilla and Franklin Sts., 25 ft., 35,000 sq.yd. one and two course rein.-con. and 5,500 lin.ft. combined concrete curb and gutter. $50,000. F. Alter, City Hall, engr.

Wis. Seymour—April 3, by B. G. Dean, city clk., paving various streets, 10,430 sq. yd. one course concrete, 4,158 lin.ft. integral concrete curb. $30,000-$35,000. H. R. Albert, Courthouse, Green Bay, engr.

Wis., South Milwaukee—March 31, by Bd. Pub. Wks. paving 1 mi. Lake Ave. from College to Hawthorne Sts., 30 ft., concrete. $30,000, J. Kozlowski, secy., Milwaukee Co. to pay part of cost. Wisconsin Hy. Com., Madison, engrs.

Wis., Waukesha—March 28, by C. J. Hahn, highway comr., Waukesha Co., surfacing, etc., 6.85 mi. Waukesha-Wales Rd. from city limits of Waukesha extending west, on State Trunk Highway 41, 72,400 sq. yd. 18 ft. concrete surfacing, 44,134 cu. yd. earth and 200 cu. yd. loose rock excav., 314.4 cu. yd. concrete in culverts and bridges, 32,385 lb. reinforcing, 24,000 bbl. cement; 5.1 mi. Templeton-Merton Rd. from Templeton west toward Merton on State Trunk Highway 74, 48,570 sq. yd. 16 and 18 ft. concrete surfacing, 82 cu. yd. concrete in culverts, 192 cu. yd. borrow, 15,000 bbl. cement, etc. Wisconsin Highway Com., 444 Milwaukee St., Milwaukee, engr.

Wis., West Bend—March 27, paving 1.2 mi. Water, Wisconsin, Oak, Hickory and Maple Sts., 25 ft., 35,000 sq.yd. one course rein.-con., combined concrete curb and gutter. $40,000. Private plans. C. P. Heipp, clk.

Ia., Atlantic—March 28, by Auditor Cass Co., grading 16,493 mi. Federal Aid Project 155, from point ¼ mi. east of here, south to Montgomery Co. line, 294,154 cu.yd. excav. etc.

Ia., Marshalltown—March 27, paving 26 blocks, 33,000 sq.yd. cement concrete or vibrolithic concrete, and 18,792 ft. concrete curb. $75,000. A. J. Herm, city engr.

Minnesota—April 4 by State Hy. Dept., St. Paul, paving State Project 10-11 Kandiyohi Co., 18,000 sq.yd. concrete, 5,000 cu. yd. excav. $41,000.

Minnesota—April 6, by State Hy. Dept., St. Paul, grading 12 mi. State Project 16-21 between Raymond and Willmar, Kandiyohi Co., 24 ft., 110,000 cu.yd. excav. $55,000.

Minn., Hastings—April 10 by R. W. Downs, aud. Dakata Co., 6.7 mi. State Rd. 24, 94,762 cu. yd. earth and 19,085 cu. yd. loose rock excav., 186,616 cu. yd. overhaul, etc.; State Rd. 4, 29,999 cu. yd. earth excav., 30,863 cu. yd. overhaul, etc., $36,000. J. Swan, Hastings, engr.

Minn., Minneapolis—April 24 by A. P. Erickson, aud. Hennepin Co., concrete paving 4.68 mi. Cedar Ave. Rd. from city limits to intersection with Fort Snelling-Shakopee Rd., 20 ft. E. E. Terrell, Court House, engr.

Minn., Preston—April 19 by J. Dunford, aud. Fillmore Co., 5 mi., Job 2201, State Rd. 1, 47,000 cu.yd. earth, 2,500 cu.yd. loose rock and 500 cu.yd. solid rock excav.; 6 mi. Job 2202, State Rd. 3, 43,000 cu.yd. earth, 7,500 cu.yd. loose rock and 300 cu.yd. solid rock excav; 7 mi. Job 2203, State Rd. 5, 52,000 cu.yd. earth, 4,800 cu.yd. loose rock and 300 cu.yd. solid rock excav. $80,000. W. Dunbar, Preston, engr. Noted Feb. 16.

Minn., Red Lake Falls—April 5 by G. Dupont, aud. Red Lake Co., 17 mi. Job 2201, State Rd. 65, Div. A (6 mi.) 60,568 cu.yd. excav., 9,313 sta.yd. overhaul, 3,803 sta.yd. channel change, 1,036 cu.yd. gravel stripping, 7,770 cu.yd. gravel surfacing, 3,524 cu.yd. clay surfacing, culverts, two bridges containing 429 cu.yd. concrete, $44,730, Div. B (6 mi.) 47,620 cu.yd. excav., 24,290 sta.yd. overhaul, 374 cu.yd. ditch and channel change, 2,044 cu.yd. gravel stripping, 8,181 cu.yd. gravel surfacing, 3,870 cu.yd. clay surfacing, culverts, $35,151, Div. C (5 mi.) 29,123 cu.yd. excav., 8,095 sta.yd. overhaul, 567 cu.yd. ditch and channel change, 1,500 cu.yd. gravel stripping, 7,169 cu.yd. gravel surfacing, 2,540 cu. yd. clay surfacing, culverts, $20,870; 4 mi. Job 2202, Federal Aid Project 275, 27,735 cu.yd. earth and 195 cu.yd. loose rock excav., 2,793 cu.yd. ditch and channel change, 14,535 sta.yd. overhaul, 1,327 cu. yd. gravel stripping, 6,060 cu.yd. gravel surfacing, 1,188 cu.yd. clay surfacing, culverts, one 26 ft. concrete bridge, $24,778. H. E. Palmer, Red Lake Falls, engr.

Minn., Rochester—April 4, by A. L. Glabe, aud. Olmsted Co., Job 2107, 5.5 acres clearing, 29,250 cu. yd. earth, 3,014 yd. loose rock and 2,699 cu. yd. solid rock excav., 84,985 cu. yd. overhaul, Bridge 3761, 30 ft. rein-con. deck girder span, rein-con. abutments; Job 2201, 31,393 cu. yd. earth, 606 cu. yd. loose rock and 292 cu. yd. solid rock excav., 12,055 cu. yd. overhaul, Bridge 3,746, two 40 ft. rein-con. deck girder spans, rein-con. abutments and pier; Job 2204, Bridge 3745, one 75 ft. low steel truss span, rein-con. abutments. $40,000. J. C. McElherne, Rochester, engr.

Minn., Stillwater—April 4 by J. F. Kilty, aud. Washington Co., 8 mi. Job 2201, State Rd. 3, 53,000 cu.yd. excav., 12,800 cu.yd. gravel surfacing, 2,100 lin.ft. portable culverts; 700 ton traprock screenings for State Rd. 3; labor for unload and haul screenings from Stillwater limits to Marone, 9.5 mi. $32,000. J. G. Merton, Stillwater, engr.

Minn., Willmar—April 4 by H. Gunderson, city clk., paving 75,000 sq.yd. streets various types. $190,000. Toltz, King & Day, 1410 Pioneer Bldg., St. Paul, engrs. Noted Jan. 12.

Kan., Atchison—March 28, by Atchison Co., grading 13 mi. various roads, 30 ft. $150,000. H. Kerr, co. engr. Noted March 16.

N. D., Fargo—March 29, by A. R. Watkins, city clk., paving Job 162, Dist. 3, portions 10th and 11th Sts. S, and 7th and 8th Aves. S., bithulithic, portland cement concrete, or vitr. brick on concrete. $40,000. R. T. Jacobson, city engr. Noted March 16.

Missouri—March 30, by State Hy. Dept. at div. office Bethany, 6.169 mi. road from Newhampton eastward and westward, Federal Aid Project 50, Harrison Co., $51,001. A. Graham, Jefferson City, state highway engr. Noted March 16.

Missouri—April 4, by State Hy. Dept. at div. office Hermitage, 7.4 mi. road from Preston northward and southward, Federal Aid Project 45, Hickory Co., $42,010; 7.035 mi. road from Wheatland eastward and

Streets and Roads (Continued)

westward. Federal Aid Project 98, Hickory Co., $40,516. A. Graham, Jefferson City, state highway engr. Noted March 9 and 16.

Ark., Marked Tree—April 12 (change of date) by Comrs., Ozark Trail Impvt. Dist., Poinsett Co., 10 mi. pavement. Morgan Eng. Co., Goodwyn Institute, Memphis, Tenn., engrs. Noted March 16.

Tex., Dallas—March 30, by Comrs. Dallas Co., paving 1 mi. Dallas-Oak, Cliff Viaduct, rock asphalt, lake asphalt, bitulithic, etc. Nagle-Witt-Rollins Eng. Co., Courthouse, engrs.

Tex., Georgetown — March 30, by F. D. Love, judge Williamson Co. grading and gravel surfacing 5.9 mi. State Highway 20 from Liberty Hill to Burnet Co. line, 3,107 cu.yd. borrow, 32,682 cu.yd. roadway and 1,912 cu.yd. rock excav., 492.2 cu.yd. concrete, 15,406 cu.yd. gravelly shale, 39,804 lb. reinforcing, $38,172; 6.3 mi. State Highway 2-C in Jarell Sect., 35,000 cu.yd. earth excav., 233 cu.yd. concrete, 19,500 lb. reinforcing, 13,000 cu.yd. shale and 6,600 cu.yd. gravel surfacing. $40,00. R. A. Nichols, co. engr.

Okla., Altus—March 27, by city, improving various streets, 12,000 cu.yd. excav., 28,000 lin. ft. combined curb and gutter, 60,000 sq.yd. asphaltic concrete pavement, 2 in. on concrete base, 4½ in., 5 in. and 5½ in. C. Reid, engr

Colorado—March 27, by State Hy. Dept., Denver, paving 1.363 mi. Grand Junction-Palisade Rd., Mesa Co., 18 ft., 1 course plain cement concrete. $50,867. L. D. Blauvelt, State Museum Bldg., Denver, engr.

Col., Denver—March 28, at office of Improvements & Parks, City Hall, paving 12 blocks Alley Paving Dist. 71, 18 ft., $28,294; 12 blocks Alley Paving Dist. 72, 18-20 ft., $25,188; 12 blocks Alley Paving Dist. 73, 16-20 ft., $22,900; all concrete. J. B. Hunter, City Hall, engr.

Col., Sterling—April 17, by City Council, curbing, guttering, laying storm sewers and paving 29,000 sq.yd. Paving Dist. 2, warrenite bitulithic. $139,492. G. A. Izett, Englewood, engr.

Washington—April 18, by State Hy. Dept., Olympia, grading and paving 4 mi. Sunset Highway from Cashmere to East Monitor, Chelan Co.; 3.75 mi. Olympic Highway from McCleary to Thurston Co. line, Thurston Co., both 1 course concrete; grading and surfacing 6 mi. State Rd. 22 from Davenport northward; grading and gravel surfacing 5.5 mi. Inland-Empire Highway from Buena to Dalton, 4 mi. Inland-Empire from Dalton to Granger; grading and crushed rock surfacing 7 mi. Pend O'Reille Highway from Cusic to Jared. J. Allen, state highway engr.

Cal., San Luis Obispo—April 3, by Bd. Supervs. San Luis Obispo Co., grading and paving Aliva Rd. between Ontario House and Avila, 3,750 cu.yd. excav., 5,500 lin.ft. shaping and rolling, 1,360 cu.yd. concrete pavement and 4,830 lb. reinforcing. W. Burch, Lowe Bldg., engr. Noted Dec. 22.

Ont., St. Catharines—April 1, by F. N. Rutherford, engr. Lincoln Co., 14 mi. waterbound macadam, 4 mi. bituminous macadam, supply and application of bituminous surfacing and annual supply of tar and asphalt. $350,000.

BIDS RECEIVED

New York—H. S. Sisson, comr. State Hy. Dept., Albany, opened bids March 14, improving (1) 2.47 mi. Glen Aubrey-Whitney Point, Part 2 and Whitney Point Village: Hickory St., Highway 1613, Broome Co., (2) 5.6 mi. Vestal-Binghamton, Highway 1613, Broome Co., (3) 2.84 mi. Leon-Markham-Dayton-Part 1, Highway 1480, Cattaraugus Co., (4) 1.91 mi. Portville-Carroll, Highway 1611, Cattaraugus Co., (5) 2 58 mi. Delancey-Delhi, Highway 1441-B, Delaware Co., (6) 4.88 mi. Fishkill Plains-Poughkeepsie, Part 1, Highway 8093, Dutchess Co., (7) 3.5 mi. Lassellsville-Oppenheim, Part 2, Highway 8091, Fulton Co., (8) 2.76 mi. Elmgrove-Ridge, Highway 1481, Monroe Co., (9) 1.06 mi. Hamilton College: Clinton, Highway 1610, Oneida Co., (10) 65.96 mi. Port Jefferson-River Head, Part 1, Highway 8094, Suffolk Co., (11) 68.08 mi. Wales Center-Varysburg, Part 2, Highway 8092 Wyoming Co., from J. C. Haynes, Watertown, (1) $97,620; Stento & Serafini, 84 Court St., Binghamton (1) $102,330, (2) $166,164, Tyne & Willey, Binghamton, (1) $106,889; C. S. Clark, 40 Bennett Ave., Binghamton, (2) $169,090; A. Rockwood, Rochester, (2) $169,799; Cold Spring Constr. Co., Ellicott Sq., Buffalo, (3) $96,646, (11) $344,296; Harrison Eng. & Constr. Corp., Ellicott Sq., Buffalo, (3) $97,409, (10) $173,403; G. Metzger, Jr., 12 East 4th St., Emporium, Pa., (3) $98,897, (4) $61,152; Bunce & Carll, Olean, (4) $62,057; Brookville Concrete Eng. Co., Inc., Batavia, (4) $63,339; O. P. Williams, Gilboa, (5) $103,594; O'Day & Ambrose, Binghamton, (5) $107,722; B. Shay, Dundee, (5) $109,511; Berkshire Constr. Co., Lee, Mass., (6) $189,539; Walsh Eng. & Contg. Co., New York, (6) $194,991; Cleveland & Sons Co., Brockport, (6) $198,012; Norwich Constr. Co., Inc., Norwich, (7) $91,158; A. F. McConville, Ogdensburg, (7) $91,329; A. V. Manley, 32 Cortland St., Norwich, (7) $92,929; F. W. and J. J. Crouch, Rochester, (8) $68,734; P. H. Murray, Rochester, (8) $70,142; H. W. Patterson, Barton, Vt., (8) $72,392; N. D. Peters & Co., 216 Kossuth Ave., Utica, (9) $52,804; A. V. Leo, Boston, Mass., (9) $56,327; J. Ciarcia and J. Berg, Mt. Vernon, (10) $176,630; W. H. Brown Constr. Co., New York, (10) $179,327; Constantine Constr. Co., 240 Dewey Ave., Buffalo, (11) $333,302; C. H. Sage, Batavia, (11) $338,169. Noted Feb. 23.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids March 15, curbing and paving (1) East 10th St., (2) 63rd St., paving (3) East 18th St., (4) East 19th St., (5) Hegeman Ave., (6) Ave. J, (7) Ave. P, (8) West 29th St., (9) Williams Ave., (10) 20th Ave., (11) 19th St., (12) 58th St. from 13th to New Utrecht Aves., (13) 58th St. from 17th to 18th Aves., (14) 64th St., (15) 68th St., (16) 77th St., (17) 80th St., (18) 82nd St. from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., (1) $11,221, (2) $7,706, (3) $5,440, (4) $10,150, (6) $8,271, (7) $5,478, (8) $8,402, (10) $4,209, (11) $6,866, (12) $3,953, (13) $7,822, (14) $3,195, (15) $11,532, (16) $8,581, (17) $8,241; Cranford Co., 52-9th St., (1) $11,509, (2) $7,933, (3) $5,601, (4) $10,449, (5) $6,751, (7) $5,638, (8) $8,804, (10) $4,333, (11) $7,233, (12) $4,071, (13) $8,054, (14) $3,290, (15) $12,429, (16) $8,833, (17) $8,482; Cleveland Trinidad Paving Co., Flushing, (5) $6,560, (9) $3,209; Borough Asphalt Co., 1301 Metropolitan Ave., (1) $11,475, (2) $7,854, (3) $5,549, (4) $10,352, (5) $6,685, (6) $8,497, (7) $5,588, (8) $8,462, (9) $3,277, (10) $4,291, (11) $7,075, (12) $4,031, (13) $7,973, (14) $3,257, (15) $11,933, (16) $8,746, (17) $8,415; Uvalde Asphalt Paving Co., 1 Bway., New York, (6) $8,618, (10) $4,290; C. Gallagher 745 Dean St., (18) $8,471; F. J. Gallagher, 490 Park Pl., (18) $8,879; Hastings Pavement Co., 25 Broad St., New York, (18) $9,173. Noted March 9.

Pa., Phila.—For paving (1) Marston St. from Allegheny Ave. to Williard St., and Williard St. from 26th to Marston Sts., 503 sq.yd. vitr. brick, 2,379 sq.yd. asphalt, 482 cu.yd. concrete base, (2) Lippincott St. from 22nd to Fox Sts., 208 sq.yd. vitr. brick, 1,512 sq.yd. asphalt, 281 cu.yd. concrete base, (3) Croskey St. from Cambria to Indiana Sts., 299 sq.yd. vitr. brick, 569 sq.yd. asphalt, (4) Rockland St. from Mascher to Rising Sun Ave., 252 sq.yd. vitr. brick, 2,201 sq.yd. asphalt, 409 cu.yd. concrete base, (5) Mascher St. from Tabor to Clarkson Sts., Large St. from Harrison to Fillmore Sts., 296 sq.yd. vitr. brick, 2,502 sq.yd. asphalt, 435 cu.yd. concrete base, (6) Large St. from Harrison to Fillmore Sts., (7) Arch St. from 33rd to 34th Sts. and Cuthbert St. from 32nd to 34th Sts., 355 sq.yd. vitr. brick, 2,880 sq.yd. asphalt, 541 sq.yd. concrete base, (8) F St. from Allegheny to Westmoreland Sts. and Wensley St. from Kensington Ave. to Jasper St., 423 sq.yd. vitr. brick, 3,080 sq.yd. asphalt, 584 cu.yd. concrete base, (9) Berks St. from Front to Hope Sts., and Phillips St. from Berks to Norris Sts., 1,517 sq.yd. granite block, 254 sq.yd. concrete base, (10) Wakeling St. from Roosevelt Blvd. to Sumnerdale Ave., and Rising Sun Ave. from Wyoming Ave. to Roosevelt Blvd., 6,682 cu.yd. excav., (11) Homer St. from Washington Lane to Duval St., 5,613 cu.yd. excav., (12) St. Vincent St. from Torresdale Ave. to Hegerman St., 260 sq.yd. granite block, 1,840 sq.yd. bituminous macadam, (13) Oakley St. from Princeton to St. Vincent Sts., Passmore St. from Oakley to Hasbrook Sts., St. Vincents St. from Rising Sun Ave. to Shelburn St., 7,640 sq.yd. bituminous macadam, (14) 66th Ave. from Broad to 12th Sts., 5,480 sq.yd. bituminous macadam, (15) Cumberland St. from 6th to 10th Sts., 4,595 sq.yd. redressed granite block, 766 sq.yd. concrete base, (16) Abbottsford Ave. from Wissahickon Ave. to McKean St., 10,000 cu.yd. excav. for wall, 450 cu.yd. concrete, (17) 9th and 10th Sts. from Market to Race Sts., 5,285 sq.yd. redressed granite block, 907 cu.yd. concrete base, (18) 6th Highway Dist., 900 sq.yd. cement sidewalk, 4,650 lin. ft. granite curbs and 1,650 ft. concrete curbs, (19) Dickinson St. from 2nd to Passyunk Aves., 1,068 sq.yd. granite block, 7,967 sq.yd. asphalt, 1,705 cu.yd. concrete base, (20) Hancock St. from Berks to Diamond Sts., Leithgow St. from Somerset to Clearfield Aves., Madison St. from Thompson to Edgemont Sts., Orianna St. from Lehigh to Clearfield Aves., Thompson St. from Allegheny to Madison Sts., 943 sq.yd. granite block, 7,239 sq.yd. asphalt, 1,682 cu.yd. concrete base, (21) Market St. from 50th to 54th Sts., 1,935 sq.yd. granite block, 4,863 sq.yd. asphalt, 1,220 sq.yd. concrete base, (22) 58th St. from Florence to Chester Aves., 58th St. from Hoffman St. to Whitby Ave., 1,611 sq.yd. redressed granite block, 6,636 sq.yd. concrete, 1,780 sq.yd. concrete base, (23) Cottman St., 2,750 sq.yd. bituminous concrete, 458 cu.yd. concrete base, (24) Panama St. from 24th to 25th Sts. and 16th St. from Locust to Lombard Sts., 4,920 sq.yd. granite block, 670 sq.yd. concrete base, (25) Poplar St. from 30th St. to West College Ave., 26th St. from Penn Ave. to Poplar St., 27th St. from Poplar to Jefferson Sts., 17,951 sq.yd. redressed granite block, 2,961 sq.yd. concrete base, (26) Norris St. from 10th to 11th Sts. and 10th St. from Columbia Ave. to Norris St., 6,172 sq.yd. granite block, 1,037 sq.yd. concrete base, (27) Front St. from Lehigh to Allegheny Aves., 9,900 sq.yd. granite block, 1,700 cu.yd. concrete base, (28) Ellsworth St. from 17th to 18th Sts. and Tasker St. from 13th to Broad Sts., 3,152 sq.yd. granite block, 540 sq.yd. concrete base, (29) Stenton Ave. from Germantown Ave. to East Logan St., 7,554 sq.yd. granite block, 660 sq.yd. concrete base, (30) South St. from Delaware Ave. to 2nd St. and 3rd St. from Walnut to Race Sts., 9,300 sq.yd. asphalt, 1,580 sq.yd. concrete base, (31) Wissahickon Ave. from Hunting Park to Roberts Aves., 25th St. from Dauphin to York Sts., 10,850 sq.yd. redressed granite block, 464 sq.yd. concrete base, (32) Clarion St. from Wharton to Tasker Sts., Juniper St. from Reed to Morris Sts., Siegel St. from 5th to 6th Sts., 5,089 sq.yd. asphalt, 1,022 sq.yd. concrete base, (33) Dauphin St. from 21st to 22nd Sts., Sydenham St. from Westmoreland to Ontario Sts., York St. from 21st to 22nd Sts., 215 sq.yd. vitr. brick, 576 sq.yd. granite block, 2,611 sq.yd. asphalt, 567 sq.yd. concrete base, (34) Berks St. from Glenwood Ave. to 27th St., Carlisle St. from Master to Jefferson Sts., Glenwood Ave. from Berks St. to Ridge Ave., Hollywood and 20th Sts. from Master to Jefferson Sts., 5,426 sq.yd. asphalt, 1,042 cu.yd. concrete base, (35) Carpenter St. from 21st to 22nd Sts., 18th St. from Shunk to Oregon Aves., 20th St. from Tasker to Mifflin Sts., 875 sq.yd. granite block, 4,442 sq.yd. asphalt, 967 cu.yd. concrete base, (36) 9 span bridge at Spring Garden St., from:

Eastern Paving Co., Colonial Trust Bldg., (1) $8,488, (2) $5,148, (3) $2,407, (4) $6,772, (5) $6,360, (7) $10,563, (8) $10,166, (17) $24,173, (18) $22,766, (19) $28,324, (20) $33,734, (21) $20,793, (22) $38,965, (24) $15,765, (25) $52,509, (26) $33,966, (27) $31,438, (29) $20,686, (30) $37,563, (31) $25,321, (32) $18,252, (33) $10,517, (34) $22,583, (35) $18,432.

Barber Asphalt Paving Co., Land Title Bldg., (1) $8,765, (2) $5,863, (3) $2,393, (4) $6,744, (5) $6,983, (6) $1,914, (7) $9,299, (8) $9,649 (19) $27,396, (20) $34,312, (21) $20,814, (22) $38,143, (23) $18,914, (32) $16,756, (33) $10,935, (34) $19,866, (35) $18,664.

Mack Paving Co., Nicetown Lane and Chelten Ave., (1) $8,693, (2) $5,982, (4) $6,922, (5) $7,046, (7) $10,963, (25) $55,973, (26) $32,871, (34) $26,322.

Ryan Constr. Co., Real Estate Trust Bldg., (9) $6,973, (24) $15,698, (25) $55,672, (27) $31,673, (28) $12,875.

J. Mehan & Sons, 915 West Dauphin St., (9) $6,447, (15) $17,222.

F. T. Buckius, Kensington Ave. and Deal St., (9) $7,153, (29) $27,352.

T. L. Flannigan, 1204 East Montgomery Ave., (10) $2,535, (11) $2,158, (12) $2,160, (16) $12,456.

J. Behan & Sons, Phila., (10) $3,746.

E. T. Bennis, Germantown and Chelten Aves., (11) $3,761, (16) $15,562.

Fish-Rutherford Inc., Real Estate Trust Bldg., (11) $3,650, (13) $7,210, (15) $17,397, (16) $15,873, (28) $12,948.

United Paving Co., Land Title Bldg., (12) $2,288, (14) $5,261, (15) $16,450, (17) $23,673, (18) $23,972, (23) $22,038, (24) $15,237, (28) $12,168, (29) $26,173, (30) $38,156, (31) $26,573.

Curtiss Bros., Longshore St., (13) $7,111, (23) $17,063.

Baton Constr. Co., Presser Bldg., (13) $7,176.

A. J. Anderson, Phila., (14) $4,920.

Cetroni & Mezzola, Phila., (17) $19,767, (18) $19,767, (27) $31,542.

Love & Lewis, Real Estate Trust Bldg., (26) $34,568.

J. F. Nolen & Sons, 64 East Church Lane, (30) $36,087.

T. Mehan & Sons, 904 Montgomery Ave., (31) $27,563.

Streets and Roads (Continued)

Brown-King Constr. Co., Real Estate Trust Bldg., (36) $21,021.

Munday Paving & Constr. Co., Finance Bldg., (36) $22,135.

J. Kelly Constr. Co., City Line, Overbrook, (Phila. P. O.), (36) $21,407.

D. C., Wash.—Dist. Comrs., 509 Dist. Bldg., 30,000 sq.yd. cement sidewalk, from Adams Constr. Co., Thomas, W. Va., (1) $1.79 (2) $1.97; W. F. Brenizer, 101 New York Ave., (1) $1.86 (2) $2; W. F. Cush, 3rd and Rhode Island Ave., N. E., (1) $2.04 (2) $2.19. Noted March 2.

North Carolina—State Hy. Dept., Raleigh, improving (1) 7.1 mi. State Project 647, Lincoln Co., (2) 5.96 mi. State Project 866, Polk Co., (3) 2.58 mi. State Project 903, Buncombe Co., (a) grading and concrete or asphaltic paving, (b) rein.-con. bridges and culverts, (4) 4.49 mi. State Project 492, Warren Co., (a) grading and waterbound macadam paving, (b) rein.-con. bridges and culverts, (5) 4.5 mi. State Project 724, Caldwell Co., (a) grading and surfacing, (b) rein.-con. bridges and culverts, (6) 3.07 mi. State Project 601, (a) grading and topsoiling, (b) rein.-con. bridges and culverts, (7) clearing, grading and concrete or asphaltic paving 11.85 mi. State Project 951, Jackson Co., (8) grading, topsoiling and waterbound macadam paving, 13.58 mi. State Project 962, Macon Co., (9) clearing, concrete or asphaltic paving and bridging 8 mi. State Project 588, Rockingham Co., from Bolton Constr. Co., Marion, (1a) $227,114; R. M. Thurn, Lunchburg, Va., (1b) $17,754, (5b) $22,621, (6b) $13,034; A. J. Wardrep, 1717 Highland Ave., Knoxville, Tenn., (1a) $230,824, (3a) $102,829, (6b) $6,444; Boyd, Higgins and Goforth, Charlotte, (1a) $233,-632, (1b) $18,859; Columbia Bridge & Bldg. Co., Columbia, Tenn. (1b) $19,111, (5b) $24,267; Southern Paving Co., Vol. Life Bldg., Chattanooga, Tenn., (2a) $195,470, (2b) $20,390; Henry Constr. Co., Greenville, S. C., (2b) $19,898; Wilson Constr. Co., Rutherfordton, (2a) $196,988; C. W. Lacy, Wilmington, (2a) $197,313, (3a) $95,583, (3b) $6,762, (7) $248,594; P. S. Minus, Spartanburg, (2b) $21,803; R. C. Stevens, Asheville, (3b) $6,109; Asheville Paving Co., Asheville, (3a) $97,908; G. P. Clay, Danville, Va., (4a) $57,718, (4b) $4,822; Brown-Terry Constr. Co., Lynchburg, Va., (4a) $56,875; A. C. House, Weldon, (4b) $4,472; Chandler & Ragland, Virgilina, Va., (4b) $4,668; Porter & Peck, Greenville, (4a) $58,982; Caldwell Co. Rd. Comn., Lenoir, (5a) $24,448, (6a) $18,990; G. Ginn, Gastonia, (5a) $25,151, (6a) $18,-539; Booz-Loyd & Co., Marion, (5b) $22,-698; Dunn & Woodall, Trust Co. of Georgia Bldg., Atlanta, Ga., (5a) $25,435, (6a) $19,-261; Striplin, Stoddy & Newell, Corinth, Miss., (6b) $13,993; W. H. Anderson Constr. Co., Spruce Pine, (6b) $12,625; R. H. Wright & Son, Ashville, (7) $236,430; S. L. Davis Constr. Co., Greensboro, (7) $238,025; O'Brien Constr. Co., Birmingham, Ala., (8) $111,136; J. L. Plott, Greensboro, (8) $116,754; O. A. Mann & Co., La Grange, Ga., (8) $131,721; Cheatwood & Driscoll, Richmond, Va., (9) $235,035; Porter & Boyd, Realty Bldg., Charlotte, (9) $266,261; Pittman Constr. Co., Rhodes Bldg., Atlanta, Ga., (9) $288,144. Noted Mar. 2.

O., Cleveland—Opened bids March 8, grading, curbing and paving (1) East 134th St. from Kinsman Rd. to Abell Ave., (2) Irvington Ave. from Paxton Rd. to East 128th St., (3) Murray Hill Rd. from Fairchild Ave. to Mayfield Rd., (4) Manor Ave. from Woodhill Rd. to East Blvd., (5) West 99th St. from Almira to Walford Aves., (1-5 inclusive) involve 24,738 lin. ft. stone curb and tile drain gutter, 25,490 cu.yd. earth excav., 10,300 sq.yd. asphalt and 190,-200 sq.ft. vitr. brick on 6 in. concrete, (6) Schneider Ave. from West 71st to West 73rd Sts., (7) East 118th St. from Kinsman Rd. to Hansel Ave., (8) East 136tn St., (9) East 156th St. from Holmes to St. Clair Aves., (6-9 inclusive) involve 11,190 lin. ft. stone curb and tile drain gutter, 1,545 sq.yd. asphalt, 6,180 cu.yd. earth excav. and 147,400 sq.ft. vitr. brick on 6 in. concrete, from A. M. Pejsa, Euclid Heights Blvd., Cleveland Heights, (1) $29,034, (4) $47,246; M. A. Ryan, c/o Pavers Exch., Society for Savings Bldg., (1) $29,685, (7) $21,119, (8) $22,598; Cleveland Trinidad Paving Co., The Arcade, (2) $7,194, (4) $41,957, (6) $7,228, (9) $18,479; T. McShaffrey Constr. Co., 173 South Forge St., Akron, (2) $7,316; River Constr. Co., Schofield Bldg., (3) $56,401; Bentley Bros., 1836 Euclid Ave., (3) $56,743; Roehl Bros., West 25th St. and Clark Ave., (5) $31,159, (6) $7,460; W. E. McHugh, 3855 West 44th St., (5) $32,186; Baldwin Bros., 4500 Euclid Ave., (7) $21,327, (9) $19,561; W. McDowell & Son, 10309 Miles Ave., (8) $22,-261. Noted March 2.

O., Cleveland — Opened bids March 8, grading, curbing and paving (1) East 126th St. from Union Ave. to Kinsman Rd., (2) East 146th St. from Lake Shore Blvd. to Westropp Ave., (3) London Rd. from Euclid Ave. to New York Central R.R. tracks, (4) Otto Court from West 58th to West 61st Sts., (5) Vashti Ave. from St. Clair Ave. to East 124th St., (1-5 inclusive) involve 4,110 lin.ft. stone curb and tile drain gutter, 7,950 cu.yd. earth excav., 21,100 sq.ft. vitr. brick, 7,900 sq.yd. asphalt and 116,600 sq.ft. 6 in. concrete-base, (6) Marston Ave. from East 123rd to East 136th Sts., (7) Franklin Ave. from West 25th St. to Franklin Circle, (8) East 114th St. from Buckeye Rd. to Forest Ave., (9) Castalia Ave. from East 138th to East 140th Sts., (10) East 112th St. from Woodland Ave. to southerly end, (6-10 inclusive) involve 11,320 lin.ft. stone curb and tile drain gutter, 7,199 cu.yd. earth excav., 133,000 sq.ft. vitr. brick on concrete, from Baldwin Bros., 4500 Euclid Ave., (1) $12,597, (8) $16,397; Roehl Bros., West 25th and Clark Ave., (1) $13,111, (4) $4,604, (10) $8,058; Cleveland Trinidad Paving Co., The Arcade, (2) asphalt $14,584; T. E. McShaffrey, Constr. Co., Forge St., Akron, (2) asphalt, $14,739; H. G. Herring, Pavers Exch., Society for Savings Bldg., (3) $29,143, (5) $6,861, (9) $10,790; Freshwater Constr. Co., Natl. Bldg., (3) $29,349; Rieley Bros., The Arcade, (4) $4,750, (5) $6,782, (8) $16,144, (9) $10,645, (10) $7,952; W. McDowell & Son, 10309 Miles Ave., (6) $32,380; Enterprise Paving & Constr. Co., 8444 Bway., (6) $33,579; Bentley Bros., 1836 Euclid Ave., (7) $18,931; Burnett & Hathaway, Pavers Exch., Society for Savings Bldg., (7) $19,103. Noted March 2.

O., Lakewood (Cleveland P. O.)—Opened bids grading and paving with asphalt, (1) Wascena Ave., (2) Northland Ave., (3) Bunts Rd., (4) Elbur Ave., from W. E. McHugh, 3855 West 44th St., Cleveland, (1) $97,873, (2) $16,250, (3) $19,555; Cleveland Trinidad Paving Co., The Arcade, Cleveland, (1) $98,954, (2) $14,139, (4) $29,133. Noted March 9.

Wis., Sheboygan Falls—Opened bids March 14, paving 4.5 mi. various streets, 25 ft., (a) one course concrete, (b) two course concrete, from F. Radloff, Plymouth, (a) $108,707, (b) $114,266; R. L. Reisinger Co., 464 Oakland Ave., Milwaukee, (a) $115,524, (b) $114,804; Manitowoc Constr. Co., Manitowoc, (a) $113,-609, (b) $115,528. Noted Jan. 26.

Neb., Kearney—V. R. Wheelock, city clk., opened bid March 13, asphalt paving 6 blocks South 5th ave., Dist., 43, from E. D. Tyner Constr. Co., 14th and Elmwood Ave., Kansas City, Mo., $0.50 grading, $0.63 curbing, $2.57 paving.

Mont., Great Falls—Paving 11,492 sq.yd. 2nd Ave. N. from 19th to 26th St., from S. Birch & Sons Constr. Co., 314 Ford Bldg., warrenite bitulithic on stone base, $41,136, same on concrete base, $42,254, gravel bitulithic on concrete, $43,927, rein.-con., $41,288; sidewalks, etc., from Fagenstrom Bros., 10-7th St., S., $8,349. Noted Sept. 1.

Missouri—State Hy. Dept. at div. office Eminence, opened bids Feb. 21, 4.006 mi. road from Winona westward, State Aid Project 20.92, Shannon Co., from Diemer-Williamson Constr. Co., Brookfield, $14,179; Coopers Constr. Serv. Co., St. Louis, $19,-088; G. Sheldon Co., 312 Putnam Bldg., Davenport, Ia., $19,986. Noted Feb. 2.

Missouri—State Hy. Dept. at div. office Ironton, opened bids March 3, 9.619 mi. road from Ironton to Glouck, Federal Aid Project 105, Sect. A, Iron Co., (1) 41,945 cu.yd. earth excav., (2) 23,023 cu.yd. borrow, (3) 69,924 sq.yd. gravel surfacing, etc., from Lynch-McDonald Constr. Co., Moberly, (1) $0.38, (2) $0.35, (3) $0.24, total, $58,676; Oliver Constr. Co., 322 Markham St., Little Rock, Ark., (1) $0.29, (2) $0.29, (3) $0.30, $59,231; Green Constr. Co., 503 Southwest Natl. Bank, Oklahoma City Okla., (1) $0.36, (2) $0.34, (3) $0.27, $59,380. Noted Feb. 23.

Missouri—State Hy. Dept. at div. office Clinton, opened bids March 4, (1) 3.608 mi. road from Clinton to Osceola, Federal Aid Project 87, Sect. 2, Henry Co., (a) 40,083 cu. yd. borrow, (b) 18,616 sq. yd. concrete pavement, etc., (2) 1.5 mi. road from Clinton to Osceola, Federal Aid Project 87, Sect. 1, Henry Co., (a) 13,591 cu. yd. earth excav., (b) 2,033 cu. yd. borrow, etc., (3) rein.-con. slab spans and steel truss span, on above road, from Davis Constr. Co., Imbeden, Ark., (1a) $0.30, (1b) $2.25, total $58,025; Carterville Constr. Co., Carterville, (1a) $0.28, (1b) $2.40, total $60,412, (2a) $0.30, (2b) $0.28, total 7,149, (3) $21,174; Maxwell Constr. Co., Columbus, Kan., (1a) $0.32, (1b) $2.50, total, 63,420, (3) $21,190; Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, (2a) $0.30, (2b) $0.30, total $7,013; Lynch-McDonald Const. Co., Moberly, (2a) $0.30, (2b) $0.30, total $7,209; E. C. Johnson, Carrollton, (3) $21,823. Noted Feb. 23 and March 2.

Missouri—State Hy. Dept., at div. office Bloomfield, opened bids March 7, 4.564 mi. road from Cairo to Poplar Bluff, Federal Aid Project 118, Sect. A, Stoddard Co., (1) 9,634 cu.yd. earth excav., (2) 9,546 cu.yd. borrow, (3) 41,781 sq.yd. gravel surfacing, etc., from Mississippi-Arkansas Truck Co., Searcy, Ark., (1) $0.20, (2) $0.185, (3) $0.675, total $35,495; Ramsey-Reynolds & Blocker, St. Genevieve, (1) $0.23, (2) $0.23, (3) $0.70, total $37,443; B. F. Clark & Son, 5052 Gates Ave., St. Louis, (1) $0.23, (2) $0.23, (3) $0.73, total $39,413. Noted Mar. 2.

Missouri—State Hy. Dept. at div. office California, opened bids March 8, 6.102 mi. road from Cooper Co. line to California, State Aid Project 20.94, Maniteau Co., from Jones & Jordon, St. Louis, $17,965; Miller Constr. Co., Springfield, $19,352; Newton Contg. Co., Jefferson City, $19,443. Noted Feb. 23.

Colorado—State Hy. Dept., Denver, opened bids March 7 improving 1¼ mi. Mt. Vernon Canon Rd., Federal Aid Project 81 B, 18 ft., from J. V. Stryker, 1507 Blake St., Denver, $17,010; O'Dell Bros., Constr. Co., Raton, N. M., $17,274; Allen & Lafferty, Mt. Morrison, $17,940. Noted Feb. 23.

Wash., Seattle—Opened bids March 10, paving West Massachusetts St., et al, 10,-000 cu.yd. earth excav., 37,500 sq.yd. 6 in. concrete, from D. H. Traphagen, Walker Bldg., $77,740; R. G. Stevenson, 1021 Ewing St., $79,504; J. L. Smith, Pioneer Bldg., $80,911.

CONTRACTS AWARDED

N. Y., Jamestown—W. J. Knauer, Chautauqua Co. engr., 255 Roberts Bldg., improving 3.94 mi. Van Buren Point-Brocton Highway, Part 3, to G. Hitchcock, French Creek, $96,078. Noted March 9.

N. Y., New York—H. Bruckner, pres. Bronx Boro, paving Westchester Ave., etc., to Leonard Paving Co., 233 Bway., $270,-749; East 168th St., to Casper Helbock Co., Harlem River and 150th St., $13,745; grading and paving Davidson Ave., to C. D. Beckwith, Inc., 2875 Bway., $19,309; grading, etc. Houghton Ave., to Spadaro Contg. Co., 827 East 217th St., $33,001; Aqueduct Ave., to Estates Contg. Co., 270 East Burnside Ave., $17,436; Carlisle Pl., to M. Delbalso, 660 East 221st St., $6,281 storm water drain in East 233rd St., to Garifnao Contg. Co. and C. Petrillo Co., 234 North High St., Mt. Vernon, $84,714; sewer in Oak Point Ave. to J. L. Sigretto & Co., Woodhaven, $15,471. Noted March 16.

N. J., Freehold—Bd. Freeholders Monmouth Co. laying 300,000 gal. glutrin on gravel roads, to M. R. Young, Aleda Apartment, Trenton, $0.14½ per gal.; 130,000 gal. tarvia on stone roads, to Barrett Co., 17 Battery Pl., New York, $0.46.

N. J., Metuchen—Bd. Freeholders Middlesex Co. (New Brunswick) paving ½ mi. North Main St., here, to M. I. Demarest, 472 Cliff Rd., Sewaren, $27,562.

Pennsylvania—State Hy. Dept., Harrisburg, Route 57, Sect. 2, Blair and Centre Counties, to Clark Bros. Constr. Co., Hastings, $371,367; Route 65, Sect. 4, Clarion Co., and Route 65, Sect. 2, Venango Co., to Kavanaugh De Niro Constr. Co., 408 Mahoning Bank Bldg., Youngstown, O., $211,-050 and $315,348 respectively; Route 268 Sect. 1, Washington Co., to R. Galiardi & Sons, 279 East Fairview Ave., Connellsville, $133,248; Routes 218 and 233, Venango Co., to Buckeye Constr. Co., 25 Avondale Ave., Youngstown, O., $457,351; Application 1707, Cumberland Co., to Development & Constr. Co., Amer. Bldg., Baltimore, Md., $204,323. Noted March 9.

Va., Danville—For 68,000 sq.yd. asphaltic concrete pavement, to R. M. Hudson Co., Salisbury, N. C., $160,000. Noted March 2.

North Carolina—State Hy. Dept., Raleigh, clearing, grading and concrete paving 13.4 mi. State Project 577, Randolph Co., to Royer-Ferguson Co., High Point, $374,350, rein.-con. bridges and culverts on above to J. L. Brinkley, Thomasville, $10,-003; grading and topeka paving on concrete base 8.34 mi. State Project 210, Craven Co., to Union Paving Co., 30th and Locust Sts., Phila., $245,896, rein.-con. bridges and culverts to A. P. Gilbert, Durham, $15,849, 1.6 mi. State Project 904, Buncombe Co., to Asheville Paving Co., Asheville, $65,280, rein.-con. bridges and culverts to R. C. Stevens, Asheville, $8,328. 10.1 mi. State Project 654, Mecklenburg Co., to Lampton & Bucks, 701 Realty Bldg., Louisville, Ky., $275,360; clearing, grading and Willite paving 11.27 mi. State Project 154, Martin Co., to Southern Willite Paving Co., Richmond, Va. $345,430, rein.-con. bridges and culverts to O. F. Leighton & Co., Richmond, Va., $12,888; grading and

Streets and Roads (Continued)

concrete paving 5.46 mi. State Project 731, Davie Co., to G. R. Martin, Salisbury, $164,660, rein.-con. bridges and culverts to Heilig & Sherrill, Winston-Salem, $12,960; clearing, grading and topsoiling 12 mi. State Project 300, Bladen Co., to T. W. Chandler, Virgilina, Va., $36,900, rein.-con. bridges and culverts to N. L. Teer, Durham, $22,120; grading and waterbound macadam paving 7.1 mi. State Project 940, Haywood Co., to Alexander & Patton, Swanannoa, rein.-con. bridges and culverts to H. A. Brown & Co., West Asheville, $13,132, 5.58 mi. State Project 860, Mitchell Co., to J. F. Mulligan Constr. Co., North Wilkesboro, $111,070; grading, topsoiling and bridging 2.4 mi. State Project 174, Camden and Pasquotank Counties, to D. E. Williams, South Mills, $50,740, 6.39 mi. State Project 607, Anson Co., to Geer & Wilson, Rutherfordton, $21,636, rein.-con. bridges and culverts to Booz-Loyd & Co., Marion, $12,100; grading and sand clay surfacing 14.93 mi. State Project 196, Washington Co., to W. N. Thompson, Burlington, $46,600; clearing and grading 16.47 mi. State Project 272, Sampson Co., to R. E. Martin, Mountain City, Tenn., $43,692. Noted Mar. 9.

N. C., Sanford—Improving various streets, involving 60,000 sq.yd. asphalt, $30,000 lin.ft. curb and gutter, 4,000 sq.yd. sidewalks, to Atlantic Bitulithic Co., Virginia Ry. and Power Bldg., Richmond, Va., $2.53 per sq.yd.

North Carolina — State Hy. Comn., Raleigh, grading and roadwork on State Project 566, Moore Co., to Gibson Constr. Co., Knoxville, Tenn., $23,440; State Project 377, Pender and Duplin Counties, to R. E. Martin, Mountain City, Tenn., $13,680.

S. C., Columbia — Paving various streets to Powell Paving Co., Palmetto Bank Bldg., $92,234. Noted Mar. 2.

Louisiana—State Hy Dept., New Orleans, plans 55 mi. roadway between New Orleans and Hammond, incl. dredging swamp in vicinity of Pontchatoula, also 8 ft. canal from 40-50 ft. wide, from Pontchatoula to LaBranche. Cost $7,000,000, of which from 25 to 50 per cent. will be borne by Federal Government. Above work to be started within 60 days. It is estimated that it will take 3 years to complete same. J. M. Fourney, state highway engr.

Ky., Winchester — Improving various streets, concrete, to Clark County Constr. Co., Winchester, $2.33 per yd. Noted Feb. 16.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties: Hamilton Co., Sect. "U" Cincinnati-Dayton Rd., 1.457 mi., bitoslag, to Pub. Wks. Constr. Co., 57 Wiggins Blk., Cincinnati, $84,791. Defiance Co., Sect. "A" Defiance-Paulding Rd., 5.226 mi., bituminous macadam tar, to Blauser & Schultz, Paulding, $106,325. Fulton Co., Sect. "R" Bryan-Wauseon Rd., 3.359 mi., rein.-con., to Homeberger-Wager Co., Feick Bldg., Sandusky, $87,550. Geauga Co., Sect. "W-2" Chagrin Falls-Greenville Rd., 4.429 mi., rein.-con., to W. I. Thompson & Co., 5103 Euclid Ave., Cleveland, $123,786. Geauga Co., Sect. "V-2" and "W-1" Chagrin Falls-Greenville Rd., 4.946 mi., rein.-con., to W. I. Thompson & Co., 5103 Euclid Ave., Cleveland, $138,430. Highland Co., Sect. "Q" Hillsboro-Washington Rd., 3.916 mi., bituminous macadam tar, to S. B. Craig, Blanchester, $70,698. Monroe Co., Sect. "F" Woodsfield-Sistersville Rd., 3.840 mi., asphalt macadam, to E. Pinney & Son, Ravenna, $124,446. Greene Co., Sect. "P" Dayton-Chillicothe Rd., constructing rein.-con. beam bridge, to John K. Spencer, Dayton, $1,965. Noted March 9 and 16.

O., Cleveland—Laying 173,500 sq.ft. stone sidewalks in northerly, southerly and westerly sidewalk districts, to Ohio Quarries Co., Citizens Bldg., $60,372; cement sidewalks in southerly and westerly districts, to Rieley Bros., The Arcade, $13,658, northerly district, to P. H. De Santis, East 22nd St. and Woodland Ave., $10,856. Noted March 2.

O., Columbus—W. H. Duffy, dir. Pub. Serv., grading, curbing, laying water mains and paving Broad St. from Belle St. to west side of Starling St., 709 ft. long, 50 ft. to Franklin Asphalt Paving Co., 209 South High St., Columbus, $10,541. Lakeview Ave. from High St. to alley west of Milton St., 1240 ft. long, 24 ft., asphalt, to B. F. Patterson, Columbus, $28,338. Ridgeway Ave. from Sunbury Ave. to Nelson Rd., 1430 ft. long, 50 ft. asphalt, to Knight & Wells, Columbus, $15,453. Capitol St. from Wilson Ave. to alley east of Wilson Ave., concrete to R. J. Dienst, 68 South Harris Ave., Columbus, $1,186. Goethe Ave. from Woodrow to Innis Aves., 135 ft. long, 20 ft., concrete, to Yale Const. Co., Columbus, $2,631. Alley north of Gay St. from 5th St. to Normandy Ave., 206 ft. long, 14 ft., to M. P. Street, Columbus, concrete, $1,274, Alley west of Champion Ave. from Fulton to Mooberry Sts., 693 ft. long, 20 ft., concrete, to R. J. Dienst, 68 South Harris Ave., Columbus, $3,817. Alley north of 14th Ave. from 2nd alley west of 4th St. to 1st alley west of 4th St., 285 ft. long, 20 ft., concrete to J. B. Hickey, 22 University Pl., Columbus, $1,917. Alley north of Hildreth Ave. from Boliver to Johnson Sts., $1,763 ft. long, 16 ft., concrete, to R. J. Dienst, 68 South Harris Ave., Columbus, $15,333. Alley west of Hamlet St. from Popular Ave. to Russell St., 528 ft. lon, 20 ft. concrete, to J. B. Hickey, 22 University Pl., Columbus, $1,449. Alley west of Linwood Ave. from Moobery to Newton Sts., 624 ft. long, 20 ft., concrete, to R. J. Dienst, 68 South Harris Ave., Columbus, $3,724. Alley west of Normandy Ave. from alley north of Gay St., to 2nd alley north of Gay St., 172 ft. long, 15 ft. concrete, to R. J. Dienst, 68 South Harris Ave., Columbus, $695. Alley north of 9th Ave. from Belmont Ave. to Perry St., 255 ft. long, 20 ft., concrete to Federal Asphalt Paving Co., Columbus, $1,325. Alley west of 17th St. from Sycamore to Forest Sts., 360 ft. long, 20 ft., concrete to Yale Constr. Co., Columbus, $1,996. Noted March 9.

O., Warren—Trumbull Co. improving 8,000 ft. Leavittsburg-Bailey Rd., concrete and brick, to G. A. Goldina, 338½ West Federal St., Youngstown, $49,555.

Ill., East St. Louis—Paving State St. from 38th to 45th St., asphalt on concrete, to F. D. Dieckmann, East St. Louis. $33,000. Noted Jan. 5.

Wis., Waukesha—Waukesha Co. concrete surfacing Prospect-Mugwonage Rd., to McGucken Constr. Co., 425 East Walter St., Milwaukee, $160,641; Genessee-Eagle Rd., to P. C. Kroeck, 1000 Humboldt Ave., Milwaukee, $156,449. Noted March 10.

Minn., Albert Lea—Freeborn Co., 13 mi. Job 2117, Div. 1, State Rd. 17; 8.9 mi. Job 2214, State Rd. 14; 13.8 mi. Job 2205, State Rd. 5, one 20 ft. steel girder bridge, single span; 8 mi. Job 2212, State Rd. 12; grading to O. Leo, $22,531, C. Sorenson, $5,409, W. Martin, $4,041, all of Albert Lea; concrete work to Quality Cement Products Co., Inc., Albert Lea, $47,545. Noted Feb. 23.

Minn., Bemidji—Beltrami Co., 9 mi. road running north from Jefferson highway at Wilton to Deer Lake, gravel on stone, to T. Smart, Bemidji, $30,529.

Minn., Duluth—J. A. Farrell, city comr., paving and curbing Superior St. from 3rd Ave. E., to 8th Ave. W., 22,280 sq.yd. asphalt, 8,500 lin. ft. concrete curbing, 26,250 sq.ft. concrete sidewalk, to D. H. Clough Co., 707 East 1st St., $182,701. Noted Mar. 2.

Minn., Pipestone — Pipestone Co., Job 2201, State Rd. 2, Trunk Highway 6, Div. A, 3,063 cu.yd. excav., 11,885 sq.yd. concrete paving; paving Cottonwood St. from Lawrence St. to main railroad tracks, in city of Pipestone, 1,038 cu.yd. grading, 4,901 sq.yd. concrete, to Hanlon & Oakes, 338 Lumber Exch. Bldg., Minneapolis, excav., $.75 per cu.yd., paving, $1.94 per sq.yd. in city and $2.09 per sq.yd. in county, total $38,098. Noted Feb. 23 and Mar. 9.

Kan., Wichita—Sedgwick Co. paving 1.991 mi. extension from Cannon Ball Rd. to city of Cheney, 18 ft., to Cornelison & Kelly, Wichita, $58,068; 18,847 mi. Cannon Ball Rd. west to county line 18 ft., to Harrison Eng. & Constr. Co., Ellicott Sq., Buffalo, N. Y., $554,405. Noted Feb. 16.

Wyoming—State Hy. Dept., Cheyenne, grading and surfacing 6 mi. Petrie to Powder River, on Yellowstone Highway, Federal Aid Project 110, west of Casper, in Natrona Co., 24 ft., 83,000 cu.yd. grading, 5,000 cu.yd. selected material surfacing, to H. A. Johnson, Casper, $28,335; 8.566 mi. Wheatland South Rd. on Yellowstone Highway, Federal Aid Project 115 Platte Co., 24 ft., to W. A. Bundy, Cheyenne, $35,956. Noted Mar. 2.

Tex., Livingston—Polk Co., grading and gravel surfacing 10.51 mi. State Highway 35, 40 acres clearing, 71,294 cu.yd. borrow and 42,762 cu.yd. roadway excav., 20,378 cu.yd. gravel surfacing furnished by county at cost of $52,000, to Tibbetts Constr. Co., 209½ West 8th St., Ft. Worth, $38,085.

Tex., Marlin—Falls Co. grading and graveling 26 mi. road, 16 ft., Precinct 5, to Hess & Skinner, Southwestern Life Bldg., Dallas, $126,885.

Colorado—State Hy. Dept., Denver, paving 4½ mi. road south of Ft. Collins and north of Loveland on Lincoln Highway, 18 ft., concrete, to Mutual Constr. Co., 419 Quincy Bldg., Denver, $124,393. Noted Feb. 23.

Arizona—State Hy. Dept., Phoenix, grading and gravel surfacing 9.8898 mi. Sect. D, Project 26, to R. McKay, Tucson, 26,305 cu.yd. excav., $0.22, 1,650 cu.yd. at $0.75, and 5,040 cu. yd. $0.25, 48 cu. yd. Class A concrete (bridges) $18, 633 cu. yd. Class C concrete (fords) $13, 142 cu. yd. rubble concrete, (bridges) $10, 18,388 cu. yd. gravel surfacing $0.50, 16,275 cu. yd. overhaul, (100 ft.) (10,000 ft. overhaul) $0.01, $44,510. State furnished materials $4,100, 10 per cent. engineering and contingencies, $4,861, total $53,471. Former contract rescinded. Noted March 16.

Washington — State Hy. Dept., Olympia, clearing, grading and surfacing with crushed rock, 9.7 mi. Inland Empire Highway from Dodge to Pomeroy, Spokane Co., to Bauer & Bauer, Dayton, $112,000. Noted March 16.

Wash., Vancouver—Clarke Co. paving 3 mi. Clarke Co. Highway, 31,455 sq.yd. 6-7½ in. concrete, to United Contg. Co., N. W. Bank Bldg., Portland, $74,412.

Cal., Bakersfield — Grading and paving Summer St., 18,824 sq.ft. grading, 82,328 sq.ft. 4 in. asphaltic concrete pavement with 1½ Warrenite surface, to Federal Constr. Co., Call Bldg., San Francisco, $25,852.

Cal., Bakersfield — Paving Summer St. from Beale Ave. to Haley St., 1½ in. Warrenite on 4 in. asphalt, 82,328 sq.ft. asphaltic concrete, 82,328 ft. grading, etc., to Federal Constr. Co., Call Bldg., San Francisco, $25,862.

Cal., El Monte—Concrete paving 11 streets to W. E. Hall, 286 Bandini Ave., Riverside, $57,259.

Cal., Oroville—Butte Co., grading and laying asphaltic concrete in 2 courses, on 182,000 sq.ft. Chico-Butte City Rd., Sect. B. Route 11, and 245,000 sq.ft. Chico-Butte City Rd., Sect. C, Route 11, to Chico Contg. Co., Chico, $30,859 and $41,680 respectively; 690,000 sq.ft. Oroville-Marysville Rd., Sect. D. Route 26, and 243,000 sq.ft. Oroville-Gridley Rd., Sect. B. Route 2, to Clark & Henery Constr. Co., 38 South Sutter St., Stockton, $116,503 and $40,725 respectively. Noted March 2.

Cal., San Diego—Improving Voltarie and De Foe Sts., Newport and Pt. Loma Aves., West Pt. Loma and Mission Blvds., to California Constr. Co., San Francisco, 491,438 sq.ft. 1½ in. asphaltic concrete on 3 in. asphaltic concrete base, $0.245, 1,149 lin.ft. 6 in. curb, $1, 1,556 lin.ft. 8 in curb, $0.90, etc., total $142,953. Noted Oct. 6.

Cal., Stockton—San Joaquin Co. paving with oil macadam Locust Rd., Dist. 4, to S. D. Miller, Manteca, $24,999.

Ont., Pembroke—For 1 mi. tarvia pavement to Grant Bros., Bank Nationale Bldg., Ottawa, $33,000.

Industrial Works

PROPOSED WORK

Conn., Georgetown—Gilbert & Bennett Mfg. Co. and Greenwood & Noerr, engrs. and archts., 847 Main St., Hartford, soon let contract 3 story, 52 x 150 ft., brick and steel addition to plant, plain foundation. $75,000.

N. J., Camden—Ballinger Co., engrs., 12th and Chestnut Sts., Phila., soon takes bids 2 story, rein.-con. and steel plant, plain foundation, Federal St., here, for Warren Webster Co., Point and Pearl Sts. $50,000.

BIDS DESIRED

N. Y., New York—April 3, by Bd. Health, 505 Pearl St., altering and building complete heating plant, on grounds of Willard Parker Hospital, foot of East 16th St. R. S. Copeland, pres.

Pa., Koppel — Koppel Car Repair Co., receiving bids 1 story, 60 x 500 ft. mill, steel. Private plans.

Pa., Phila.—March 28, by F. H. Caven, dir., 100 x 280 ft. machine shop and office, steel, brick and concrete, 28th and Cambria Sts., $75,000. A. E. Davis, City Hall, engr.

Pa., Phila.—Hoffman-Henon Co., archts., Finance Bldg., receiving bids 8 story, 78 x 120 ft., rein.-con., brick and steel warehouse, wood pile foundation, Dlaware Ave. and Pine St., for S. S. Earl, Jr., 113 South 3rd St.

Pa., Washington—W. L. Stoddart, archt. 9 East 40th St., New York, receiving bids and opens same about April 10 brick, steel and concrete printing plant, for Observer Publishing Co., $200,000.

O., Massillon—W. E. Wagner taking bids 2 story, 48 x 105 ft., brick and metal garage. $60,000. Albrecht, Wilhelm & Kelly, 1836 Euclid Ave., Cleveland, archts.

Ill., Chicago—Chicago, Burlington & Quincy R.R., 547 West Jackson Blvd., receiving bids 6 story, 300 x 700 ft. freight house, rein.-con., brick and steel, Canal,

Industrial Works (Continued)

Harrison and Polk Sts. **$3,000,000.** W. T. Krausch, c/o owner, engr.

Wis., Marinette—T. Klaver, Jr., archt., 1861 Dunlop St., taking bids 1 story, 115 x 117 ft., brick, tile and concrete garage, plain foundation, Court St., for H. A. White, 2000 Hall Ave. $40,000.

Wis., Racine—W. J. Redden, archt. and engr., 2819 Arlington Ave., taking bids 2 story, 80 x 100 ft., brick and concrete garage, plain foundation, for Jacobson Auto Co., 1713 West 6th St. $45,000. Noted March 2.

BIDS RECEIVED

Pa., Butler—Hunting-Davis Co., archts., Century Bldg., Pittsburgh, 3 story, 83 x 110 ft. garage and sales building, Main St., from H. Wimer, Butler, $83,653; A. A. Lane Constr. Co., 1869 East 55th St., Cleveland, O., $84,800; Turner Constr. Co., 242 Madison Ave., New York. $86,685. Noted Feb. 23.

CONTRACTS AWARDED

Mass., Roxbury (Boston P. O.)—Boston Elevated Ry. Co., Massachusetts Ave., Boston, 2 story, 63 x 450 ft., brick and steel shop, at Forest Hills Yard to McDonald & Imhof, 164 Dudley St., Boston. $250,000.

Pa., Phila.—Curtis Publishing Co., Independence Sq. (first unit of plant) 3 story, 145 x 215 ft. rein.-con., brick and steel, plain foundation, 7th and Sansom Sts., to Doyle & Co., 1519 Sansom St. Noted Jan. 26.

Pa., Phila.—W. E. S. Dyer, engr., Land Title Bldg., for following factories, 5 story, 80 x 122 ft., 2 story, 52 x 110 ft. and 110 x 125 ft., 1 story, 48 x 55 ft., 40 x 40 ft., 28 x 33 ft., 46 x 75 ft., 74 x 108 ft., 73 x 210 ft., 25 x 31 ft. and 14 x 30 ft., all rein.-con., brick and steel, plain foundations, Wyoming Ave. and G St., to H. E. Baton, 1713 Sansom St. $500,000. Owner's name withheld.

W. Va., Charleston—Libby Owens Sheet Glass Co., c/o Devore Co., 908 Nicholas Bldg., Toledo, O., 1 story, 64 x 75 ft., addition to power plant, here, to Z. J. Bergeron, 1940 Lawrence Ave., Toledo, O. $50,000.

W. Va., Huntington—Amer. Car & Fdry. Co., 165 Bway., New York, constructing extensions to brick and steel plant, 3rd Ave., here, concrete foundation to Langhorne & Langhorne, 1028 4th Ave., Huntington; structural steel and erection to Amer. Bridge Co., 30 Church St., New York. Total cost of plant $500,000.

O., Cleveland—C. W. Fessenden, 2371 East 4th St., 1 story, 50 x 141 ft., brick and steel garage, 2892 East 116th St., to Super-Bilt Constr. Co., 624 Union Bldg. Noted March 5.

O., Cleveland—Natl. Carpet Cleaning & Rug. Mfg. Co., Sincere Bldg., 2 story, 40 x 123 ft., brick and steel factory, West 50h St. and Lorain Ave., to Complete Constr. Co., 3129 Scranton Rd., $50,000. Noted June 30.

Mich., Escanaba—Wolverine Delta Motor Co., 1 story, 100 x 138 ft. concrete and brick garage, plain foundation, to E. Johnson, Ironwood. $45,000. Noted Jan. 19.

Mich., St. Joseph—C. A. Esser, archt., 38 South Dearborn St., Chicago, 3 story, 80 x 204 ft. rein-con., brick and steel factory, Longfellow Ave. and Bway., to M. H. Stock & Son, St. Joseph, for Gurinian Candy Co., c/o architect $100,000. Noted Feb. 16.

Ill., Chicago—Vienna Model Bakery Co., 1040 Vernon Park Ave., 3 story, 101 x 140 ft., bakery, rein.-con., brick and steel, Congress and Racine Aves., to Krahl Constr. Co., 350 North Clark St. Noted Feb. 2.

Ill., Chicago—A. Mikele, 1311 Washburn Ave., 2 story, 72 x 107 ft. garage, rein.-con., brick and steel, Taylor and Garibaldi Ave., to M. Alter, 2656 Potomac Ave. $50,000. Noted Mar. 2.

Ill., Evanston—Boyle Ice Co., 847 Larabee St., Chicago, 2 story, ice plant, brick, 542 Linden Ave., here, to A. C. Thielberg, 154 West Randolph St., Chicago. $40,000.

Ill., Rock Island—Illinois Oil Co., 215 Safe Bldg., will build 3 story, 40 x 150 ft. factory and office, rein.-con., brick and terra cotta, 4th Ave. and 24th St., by day labor. $160,000. Noted Mar. 16.

Mont., Bozeman—See "Missoula."

Mont., Missoula—State Bd. Examiners, Helena, two 1 story, 45 x 74 ft. heating plants brick, concrete and steel, complete incl. mechanical equipment, one at State University, here, and other at College of Agriculture and Mechanical Arts, Bozeman, to Northern Plumbing & Heating Co., Billings, $331,627. Noted Feb. 16.

Mo., Hannibal—Robinson Bros. Paint Co., 201 South 5th St., 1 story brick and concrete warehouse and factory, to Burgher Bros., Trust Bldg. Noted Feb. 23.

Cal., Grossmont—S. L. Studios-San Diego of San Diego, constructing first unit of motion picture producing plant, 90 x 200 ft., here, to Miller & Fifield, San Diego, $40,000. Total cost $500,000.

Cal., Los Angeles—Globe A1 Ice Cream Co., 2 story, 148 x 276 ft., ice cream factory, rein.-con., Hill and Jefferson Sts., to W. A. Heitman Co., 900 Merritt Bldg., $360,000; plus percentage basis.

Cal., Los Angeles—Westinghouse Electric & Mfg. Co., Van Nuys Bldg., 6 story, 170 x 239 ft., rein.-con. warehouse, 5th and San Pedro Sts., to E. B. Newcomb, Pantages Bldg., $700,000; cost plus percentage basis. Noted Jan. 19.

Cal., Oakland—Zellerbach Paper Co., 618 Franklin St., 3 story, rein.-con. warehouse, 6th and Franklin Sts., to O. Duval & Son, Dalziel Bldg., $80,000.

Cal., Sacramento—California Candy Co., 3 story, 40 x 160 ft. factory, rein.-con., R St., to A. W. Norris, Peoples Bank Bldg., $60,000.

Cal., San Francisco—Bothin Estate, 609 Mission St., 5 story, rein.-con. printing plant, 1st and Howard Sts., to Cahill Bros., 110 Sutter St., $130,000.

Buildings

PROPOSED WORK

Mass., Springfield — Apartment—Gagnier & Angers, 327 Main St., having plans prepared 4 story, 90 x 150 ft., brick and steel, plain foundation, Dwight St. $150,000. Private plans.

Conn., Bridgeport — Apartment — W. Tischler, 1298 State St., having plans prepared by L. Asheim, archt., 211 State St., 4 story, 65 x 160 ft., brick and concrete, Clinton Ave. $150,000.

Conn., Hartford — Apartment — Seligman & Ruffkess, 949 Broad St., having plans prepared by B. A. Sellew, archt., 721 Main St., 3 story, 95 x 146 ft., brick, Park Terrace. $150,000.

N. Y., Batavia—High School-Bd. Educ. had plans prepared by E. E. Joraleman, archt. and engr., 482 Delaware Ave., Buffalo, and soon takes bids 3 story, 144 x 200 ft., brick, steel and Indiana limestone, Ross St., $450,000. Noted March 16.

N. Y., Elmira — High School — H. O. Hutchinson, supt. Bd. Educ., soon takes bids for Junior and Senior High School. $550,000. H. A. Bickford, 118 Lake St., archt. Noted March 16.

N. Y., Elmira—Hospital—Building com. of St. Josephs Hospital, 555 East Market St., had plans prepared by H. M. Haskill, archt., Hitt. Bldg., and soon takes bids brick, concrete and steel. 200,000.

N. Y., New York—Apartment—See "Contracts Awarded."

N. J., Newark—Bank—F. Grad, archt. and engr., 245 Springfield Ave., opens bids about April 1, brick, steel and stone, plain foundation, 5-7 Belmont Ave., for Federal Loan Co., 15 Belmont Ave., $150,000.

Pa., Altoona — Nurses Home — Bd. Dir. Altoona Hospital plan 4 story, 90 x 120 ft. brick, Howard Ave. $150,000. H. Slutzker, 2113 West Maple Ave., chn. Architect not selected.

Pa., Carrick (Pittsburgh P. O.)—School—Bd. Educ. having plans prepared by Estep & Estep, archts., Century Bldg., Pittsburgh, 2 story school on 350 x 400 ft. plot, Parkway St. $150,000.

Pa., Erie—High School—Bd. Educ. plans 2 story, on 270 x 660 ft. plot, 23rd and Cascade Sts. $350,000. W. W. Meyers, Library Bldg., archt.

Pa., Greensburg—Office—First Natl. Bank plans office on 86 x 90 ft. plot. $200,000. Architect not selected.

Pa., Phila.—Theatre—S. Kaplan, archt., 929 Chestnut St., preparing plans and receives bids about April 1, 1 story, 54 x 125 ft., rein.-con., steel and brick, plain foundation, $200,000. Owner's name withheld.

Pa., South Fork—Bank—First Natl. Bank soon receives bids 2 story, brick, steel and stone, plain foundation, Main St. $175,000. Dennison & Hirons, 288 Lexington Ave., New York, archts. and engrs. Noted Jan. 26.

O., Andover—High School—Bd. Educ. having plans prepared by R. F. Medicus, archt., 287 Crandall Ave., Youngstown, 2 story, brick. $150,000.

O., Andover—Hotel—M. S. Davis and E. Haas are interested in syndicate which is having plans prepared by R. F. Medicus, archt., 285 Crandall Ave., Youngstown, 3 story, 96 x 140 ft., brick, Main St. $200,000.

O., Cleveland—Apartment—J. L. Free, 1004 Prospect Ave., plans 4 story, brick and steel, plain foundation, East 89th St. and Carnegie Ave. $200,000. Architect not selected.

O., Cleveland—Store—Higbee Co., East 13th St. and Euclid Ave., having plans prepared by A. Garfield, archt., Natl. City Bldg., 2 and 6 story, brick, steel and concrete addition, plain foundation. $200,000. A. Shiverick, pres.

O., Youngstown—Bank and Office—First Natl. Bank had plans prepared by Walker & Weeks, archts., 1900 Euclid Ave., Cleveland, 16 story, 42 x 200 ft., brick and steel, plain foundation, Federal St. $2,500,000.

Ind., Terra Haute—Apartment—W. W. Ahlschlager, archt., 65 East Huron St., Chicago, soon receives bids 3 story, rein.-con., brick and stone, here, for C. J. Allardt, 54 West Randolph St., Chicago. $200,000.

Col., Colorado Springs—Hospital—Methodist Episcopal Church plans hospital on East Boulder, Main East Willamette and Foote Sts. $1,000,000. Plan to build first unit this year, $250,000. E. Hislop, First Methodist Church, Boulder and Nevada Aves., chn. com.

Cal., San Francisco — Apartment — L. Fritz, 116 Frederick St., having plans prepared by E. N. Fritz, archt., 116 Frederick St., and soon takes bids 8 story, rein.-con. and steel, California St. between Mason and Taylor Sts. $350,000.

Ont., Guelph—Collegiate—Bd. Educ. soon takes bids 3 story, 16 room, brick and steel. $320,000. G. Hutton, Hamilton Bank Bldg., Hamilton, archt.

BIDS DESIRED

Conn., Hartford—High School—April 11 by W. H. Scoville, chn. High School Plant and Bldg. Com., 3 story, rein.-con., brick and steel, Greenfield and Ridgefield Sts. $1,500,000. F. I. Cooper Corp., 33 Cornhill, Boston, archts. R. D. Kimball Co., 6 Beacon St., Boston, engrs. Noted Feb. 16.

Conn., Hartford—Hospital—C. J. Malmfeldt, archt., 206 Trumbull St., receiving bids and opens same about April 1, 7 story, 50 x 160 ft., rein.-con., brick and steel, plain foundation, Hudson St., for Hartford Hospital, 20 Hudson St. $500,000. Noted Feb. 9.

Conn., New Haven—Business—March 31 by R. W. Foote, archt., 185 Church St., 12 story, 64 x 90 ft., rein.-con., brick and steel, Church and Court Sts., for A. W. Powell, 177 Church St. $1,000,000.

Conn., New Haven—High School—April 21, by H. M. Greist, chn. com. Westville School Dist., 2 story, concrete, brick and steel, plain foundation, Fountain and Emerson Sts. $200,000. Brown & VonBeren, 185 Church St., archts. L. W. Robinson, 421 Church St., consult. archt. Noted Dec. 15.

Conn., Wallingford—Theatre and Store—G. H. Wilkinson, 12 North Main St., receiving bids and opens same about March 31, 2 story, 70 x 150 ft., concrete and brick, plain foundation, Centre St. $150,000. Loomis Thompson, 586 Corbin Ave., New Britain, archt. Noted Feb. 9.

Conn., Waterbury—School—T. F. Freney, archt., 51 Leavenworth St., receiving bids and opens same about March 25, 3 story, 35 x 150 ft., brick and steel, plain foundation, Wolcott St., for Sacred Heart Roman Catholic Parish, Wolcott St. $150,000.

N. Y., Medina—Schools—April 11, by Bd. Educ., new high school and Ensign Ave. grade school. W. B. Ittner, 408 Bd. Educ. Bldg., St. Louis, Mo., archt.; adv. this issue. Noted Nov. 3.

N. Y., New York—Apartment—A. J. Schwarzler, 369 East 167th St., 5 story, brick, steel and stone, plain foundation, Sherman Ave. $200,000. Work will be done by separate contracts. J. B. Cali, 81 East 125th St., archt. and engr.

N. Y., New York — Apartment — A. J. Schwarzler, 369 East 167th St., 5 story, brick, steel and stone, plain foundation. Tudor Pl. $200,000. Work will be done by separate contracts. Margon & Glaser, 2806 3rd Ave., archts. and engrs.

N. Y., New York—Apartment—S. Silverberg, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., 5 story, brick, steel and stone, plain foundation, Morris Ave. $150,000. Work will be done by separate contracts under supervision of architect.

N. Y., Richmond Hill (Jamaica P. O.)—School—March 27, by President Bd. Educ., 500 Park Ave., New York, P. S. 54, brick, steel and stone, plain foundation, Hillsdale and 127th Aves., here. C. B. J. Snyder, Municipal Bldg., New York, archt. and engr.

Pa., Greensburg—Home—March 31, by Comrs. Westmoreland Co., remodeling county home, $190,000. Private plans.

Pa., Oakmont—High School—April 1, by Boyd, Abel & Gurget, archts., 112 South 16th St., Phila., 2 story, 168 x 245 ft., rein.-con., brick and steel, cut stone trim, for Haverford Twp. School Bd., c/o J. W. Huff, 6035 Lansdowne Ave., Phila., $300,000. Noted Jan. 26.

Pa., Philadelphia—Theatre—R. Beard, 2120 North Lambert St., archt., receiving

Buildings (Continued)

bids 1 story, 227 x 288 ft., rein.-con., steel and brick, plain foundation, 52nd and Poplar Sts., for Maxwell Amusement Co., c/o architect, $350,000. Noted Feb. 23.

Pa., Pittsburgh—Club—March 29, by University Club, 4439 Bigelow Blvd., 3 story, 113 x 113 ft., brick, limestone and steel, Tennyson Ave., $300,000. H. Hornbostel, Pittsburgh, archt.

W. Va., Hopemont—Hospital—May 6, by State Bd. Control, Charleston, 2 story, 41 x 285 ft., here. $150,000. Warne, Tucker & Patterson, Charleston, archts. A. Soupart, Charleston, engr.

S. C., Charleston—Apartment—April 4, by E. J. Murphy, c/o G. L. Preacher & Co., archts., Healy Bldg., Atlanta, Ga., and Charleston, 3 story, rein.-con., Rutledge Ave. and Beaufain St. $200,000.

O., Cleveland—Apartment—April 3, by L. M. Rich, 312 Society for Savings Bldg., 4 story, 108 x 130 ft., brick and timber, Overlook and Hampshire Rds. $150,000. T. C. Minor, Wade Park Ave. and Ansel Rd., archt. Noted Feb. 23.

O., Mayfield — School — April 8, by Bd. Educ. 2 story, brick, steel and concrete, Mayfield Rd. $150,000. Fulton, Taylor & Cahill, 8120 Euclid Ave., Cleveland, archts.

O., Shaker Heights—Schools—March 31, by Bd. Educ. two 1 story, 132 x 154 ft. brick, steel and concrete, Sussex and Norwood Rds. $200,000. C. W. Bates, 77 12th St., Wheeling, W. Va., archt.

Ind., Bloomington — Commerce and Finance—April 6 by Indiana University, 3 story, 75 x 185 ft., brick and limestone. $350,000. R. F. Daggett, 959 Lemcke Annex, Indianapolis, archt.

Ind., Richmond — Bank — March 29, by First Natl Bank, 827 East Main St., 2 story, 38 x 114 ft., brick and stone, 7th and Main Sts. $150,000. H. H. Heistand, Eaton, O., archt. C. C. and E. A. Weber, 3rd and Walnut Sts., Cincinnati, O., associated archts. Noted Jan. 19.

Mich., Ann Arbor—Physical Science—March 29, by S. W. Smith, secy. Bd. Regents, 4 story, 135 x 240 ft., brick, steel, stone and rein.-con., on East University Ave., for University of Michigan. A. Kahn, 1000 Marquette Bldg., Detroit, archt.

Ill., Chicago—Apartment—L. Weisfeld, archt., 5 North La Salle St., receiving bids 3 story, 100 x 150 ft., rein.-con., brick and steel, 5111-17 Kenmore Ave., for M. Bloom, c/o architect. $200,000.

Ill., Chicago—Store—R. M. Hyde, archt., 8 South Dearborn St., receiving bids 2 story, rein.-con., brick and steel, Bway., Waverland and Halsted Sts., for J. N. Lott, 133 West Washington St. $200,000.

Ill., Jacksonville—Apartment—Ludgin & Leviton, archt., 53 West Jackson Blvd., receiving bids 3 story, 126 x 144 ft., rein.-con., brick and steel, Spaulding and Schubert Aves., for W. Leibovitz, c/o architects. $200,000. Noted Jan. 26.

Ill., Jacksonville—Hospital—April 4, by E. A. Martin, state archt., Capitol Bldg., Springfield, 2 and 3 story, rein-con., brick, stone and steel, Soldiers and Sailors Hospital, here, for State Hospital Comn., c/o local Bd. Officers, Jacksonville, R. W. Woolston chmn.; $150,000. Noted Mar. 9.

Wis., Milwaukee — Mercantile — Dick & Bauer, archts., 801 State St., opens bids about March 25, 6 story, 50 x 150 ft., rein.-con. and brick, concrete pile foundation, 7th St., for E. Wiener, 301 7th St. $150,000.

Wis., Racine—Arcade and Office—S. Sklute, 434 Main St., and D. S. Kormiss, 301 South State St., Chicago, (owners), and K. M. Vitzthun & Co., archts., 21 East Van Buren St., Chicago, taking bids 2 and 4 story, 70 x 238 ft., brick, concrete and terra cotta, plain foundation, Main St. $245,000. Noted Nov. 3.

Minn., Duluth—Jail—April 14, by F. W. Borgen, aud. St. Louis Co., 4 story, 115 x 168 ft., rein.-con., brick and steel, West 2nd St., $392,000. Holstead & Sullivan, 407 Palladio Bldg., archts. and engrs. This corrects report in March 16 issue.

Minn., Minneapolis—School—March 31 by Bd. Educ., two 3 story, 40 x 90 ft. wings, rein.-con., brick, tile and stone, Vincent Ave. S. and 49th St. $150,000. E. H. Enger, c/o owners, archt. Noted Nov. 17.

Neb., Alliance—Schools—April 21, by Secretary Bd. Educ., 2 story, 77 x 169 ft. high school and 2 story, 45 x 66 ft. grade school, both rein.-con. and brick. $172,000 and $32,000 respectively. Fiske & Meginnis, 533 Bankers Life Bldg., Lincoln, archts. Noted Feb. 9.

Mo., Marshall—Custodial—April 1, by Missouri Colony for Feeble Minded and Epileptics, c/o P. C. Wilson, supt., 2 story, 96 x 188 ft., rein.-con., brick, steel and stone, $150,000. S. M. Hitt, 573 Sheidley Bldg., Kansas City, archt. Noted Jan. 12.

Mo., St. Louis—Law—March 28, by Jamieson & Spearl, archts., 800 Security Bldg., 2 story, 54 x 185 ft., granite and steel, for Washington University, Skinker and Forsythe Aves. $200,000. Noted March 31.

Mo., University City—Apartment and Store—G. Sokol, 7069 Pershing Ave., St. Louis, 6 story 100 x 100 ft., brick and concrete, Delmar Ave. here. $200,000. Work will be done by separate contracts. Private plans. Noted March 9.

BIDS RECEIVED

Pa., Philadelphia — High School — Bd. Educ., 19th and Chestnut Sts., high school on 24th and Jackson Sts., from M. Melody & Sons, 1322 Race St., $566,870; P. H. Kelly Co., 1713 Sanson St., $575,000; plumbing from Bulman Bros., 5th and Cumberland Sts., $32,366; heating from C. E. Monday & Co., 1318 Olive St., $81,762.

O., Alliance — School — Bd. Educ. opened bids March 10, Liberty School, 2 story, brick and concrete from Clemmer & Johnson, 406 Metropolitan Bldg., Akron, $135,000. Noted Feb. 23.

O., Painesville—High School—Bd. Educ. opened bids March 9, 2 story, 190 x 210 ft., brick and concrete, from H. L. Carr & Co., Frederick Bldg., Cleveland, $229,888; Hearn Constr. Co., 3855 Parkdale Rd., Cleveland, $333,176. Noted Feb. 23.

Cal., Los Angeles—Hotel—Central Investment Co., c/o Schultze & Weaver, archts., 633 Pacific Mutual Bldg., opened bids March 8, Biltmore Hotel, 14 story, 198 x 320 ft., steel, brick and terra cotta, 5th and Olive Sts., from Lange & Bergstrom, Washington Bldg., $4,991,773; Scofield Eng. & Constr. Co., 728 Pacific Finance Bldg., $5,086,000; J. Stewart & Co., Los Angeles, $5,210,000. Noted Mar. 2.

CONTRACTS AWARDED

Mass, Wellesley—Dormitories—Wellesley College, 3 story, 35 x 140 ft. and 3 story, 50 x 146 ft., brick, to Leighton-Mitchell Co., 99 Chauncey St., Boston. $150,000.

Conn., Bridgeport—School and Hall—St. Patricks Roman Catholic Parish, 865 North Ave., 2 story, 70 x 140 ft., brick and steel, Wells St. and Gem Ave., to Hewlett Co., 884 Main St. $150,000. Noted Jan. 5.

N. Y., Brooklyn—Apartment—G. and H. Building Corp., c/o Shampan & Shampan, archts., 50 Court St., 4 story, 100 x 137 ft., brick, steel and stone, plain foundation, 15th Ave. and 53rd St., by day labor. $250,000.

N. Y., Elmhurst — (Flushing P. O.) — School—Bd. Educ., 500 Park Ave., New York, P. S. 102, Van Horn St., here, to Blenton Bldg. Corp., 342 Madison Ave., New York, $254,175. Noted March 9.

N. Y., New York—Apartment—B. L. W. Constr. Co., c/o Margon & Glaser, archts. and engrs., 2806 3rd Ave., 6 story, brick, steel and stone, plain foundation, Bedford Park Blvd., by day labor. $350,000.

N. Y., New York—Apartment—P. Meirowitz, 530 Manhattan Ave., plans 12 story, brick, steel and stone, plain foundation, 1240 Madison Ave. Architect not selected. Work will be done by day labor.

N. Y., New York—Apartment—Schiermson Realty Co., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., 5 story, brick, steel and stone, plain foundation, Walton Ave., by day labor. $150,000.

N. Y., New York—Faculty—McKim, Mead & White, archts. and engrs., 101 Park Ave., 4 story, 80 x 83 ft., brick, steel and stone, plain foundation, Morningside Dr. and 117th St., to E. Corning Co., 145 East 45th St., for Columbia University, Morningside Heights. $200,000. Noted Feb. 9.

N. Y., New York—Office—New York Realty & Terminal Co., c/o Cross & Cross, archts. and engrs., 681 5th Ave., 13 story, 100 x 125 ft., brick, steel and stone, plain foundation, 395 Madison Ave., to Todd, Robertson & Todd, 101 Park Ave. Noted Feb. 9.

N. Y., Niagara Falls—School—E. J. Fort, city mgr., 251 2nd St., general contract for school, to Wright & Kremers, Niagara Falls, $463,200; heating, to Power Efficiency Corp., White Bldg., Buffalo, $107,900. Noted Feb. 23.

Pa., Philadelphia—Apartment—D. Crawford, Jr., 701 North 63rd St., 10 story, 175 x 220 ft., rein.-con., brick, steel and limestone, 39th and Chestnut St., by day labor, $3,000,000. C. E. Wunder, 1415 Locust St., archt. Noted Dec. 22.

W. Va., Charleston—Temple—Beni Kedem Shrine A.A.O.N.M.S., 4 story, 110 x 200 ft., rein.-con., brick and steel, to Lynch Constr. Co., 52 Vanderbilt Ave., New York. Noted Dec. 22.

N. C., Raleigh—Agricultural—State Dept. Agriculture, 5 story, rein.-con., brick, terra cotta and Indiana limestone, Edenton and Halifax Sts., to J. E. Beaman, Commercial Bank Bldg., $312,000. Noted Mar. 2.

O., Cleveland—Apartment—B. Lederman, 10719 Pasadena Ave., 3 story, 75 x 150 ft., brick, steel and concrete, 2026 East 107th St., to J. Miller, 2381 East 46th St., $200,000.

Ind., Indianapolis—Bank and Office—J. F. Wild & Co., 123 East Market St., 12 story, 85 x 120 ft., brick and stone, East Market St., to Bedford Stone & Constr. Co., Fletcher Trust Bldg. $1,000,000. Noted Feb. 23.

Ind., Indianapolis—Office—Libby Realty Co., c/o Vonnegut, Bohn & Mueller, archts., 610 Indiana Trust Bldg., 12 story, 77 x 90 ft., concrete, brick and steel, Illinois and Washington Sts., to Bedford Stone & Constr. Co., Fletcher Trust Bldg. $500,000. Noted Aug. 4.

Ind., Whiting—Schools—N. S. Spencer & Sons, archts., 37 West Van Buren St., Chicago, 3 story, 90 x 140 ft. high school and 1 story, 70 x 90 ft. grade school, rein.-con., brick and steel, to English Bros., 419 Lincoln Bldg., Champaign, Ill., for Bd. Educ. Noted March 9.

Ill., Bloomington — Memorial — J. McBarnes, Holder, 2 story, 100 x 234 ft., rein.-con., brick, stone and steel, here, to Simons & Dick., Bloomington. Noted Nov. 3.

Ill., Chicago—Apartment—Rissman & Hirschfield, archts., 139 North Clark St., 3 story, 70 x 121 ft., rein.-con., brick and steel, 3853-59 Wilcox St., to H. Entin, 2209 Cortez St., for I. Asterholm, c/o architects. Noted Mar. 16.

Ill., Chicago—Apartment—H. F. Bloomfield, c/o A. S. Hecht., archt., 155 North Clark St., 3 story 109 x 125 ft., rein.-con., brick and steel, Blackstone and 57th Sts., to Welch-McCarthy Constr. Co., 56 West Washington St. $238,000.

Ill., Chicago—Apartment—H. C. Cottrell, 5254 Bway., 3 story, 96 x 139 ft., rein.-con., brick and steel, 815 Bradley Pl., to Anderson & Winblau, 6235 South Michigan Blvd. $200,000.

Ill., Chicago—Apartment—C. R. Gleason, 111 West Washington St., 3 story, rein.-con., brick and steel, Winthrop and Glenlake Aves., to A. E. Johnson, 5356 Bellepiaine Ave. $500,000.

Ill., Chicago—Apartment—A. C. Marks, 30 North La Salle St., 3 story, 80 x 100 ft., rein.-con., brick and steel, 2577-83 Montrose Ave., to J. J. Schrann, 4803 Lincoln St. $175,000.

Ill., Chicago—Apartment—P. F. Olsen, archt., 127 North Dearborn St., 3 story, 200 x 206 ft., rein.-con., brick and steel, Jonquil Terrace and North Hermitage Ave., to J. Anderson & Co., 5723 Winthrop Ave. $300,000. Owner's name withheld. Noted Mar. 2.

Ill., Chicago—Bank and Office—W. G. Uffendel, archt., 39 South State St., 3 story, 75 x 100 ft., rein.-con., brick and steel, Western Ave. near Lawrence Ave., to C. B. Johnson & Son, 111 West Washington St., for Bowmanville Natl. Bank, 4800 North Western Ave. $250,000. Noted Jan 26.

Ill., Chicago—Church—Buena Memorial Presbyterian Church, 4301 Sheridan Rd., rein.-con., brick and steel, Bway. and Sheridan Rd., to Nelson & Lind, 5404 South State St. $150,000. Noted Dec. 30, 1920.

Ill., Chicago—School—A. Foster, archt., 56 East Randolph St., 3 story, 65 x 120 ft., rein.-con., brick and steel, Hoyne and Webster Aves., to J. F. Schrambeck, 3414 North Hamlin Ave., for St. Hedwigs Church, Hoyne and Webster Aves. Noted Jan 26.

Ill., Chicago—Store and Apartment—W. L. Wallen & Sons, 6713 North Clark St., 3 story, 173 x 580 ft., rein.-con., brick and steel, Estes and Glenwood Aves., to C. B. Johnson & Son, 111 West Washington St., $2,000,000.

Ill., Evanston — Home — Swedish Old Peoples Home, 3 story, 37 x 150 ft., rein.-con., brick and steel addition, Colfax and McDaniels Aves., to A. Miller, 2911 North Sangamon St., Chicago. $250,000.

Ill., Urbana—Hospital—Mercy Hospital, c/o R. Flynn, 612 East Park Ave., Champaign, general contract 3 story, rein.-con., steel and brick, here, to English Bros., 419 Lincoln Bldg., Champaign. $125,000. Noted Sept. 1.

Wis., Sheboygan — High School — Bd. Educ., 1809 West 5th Ave., 2 story, 278 x 368 ft., rein.-con., brick and steel, 9th and Jefferson Sts., to J. M. Hansen, 113 West Walnut St., Green Bay. $1,000,000.

Minn., Cloquet—School—Bd. Educ., general contract for 2 story, 80 x 125 ft., rein.-con., brick, tile and stone, to A. C. Wilcutts & Son, 807 Fisher Ave., Superior, Wis. $99,000. Noted Feb. 16.

Kan., McPherson — Science Hall — McPherson College general contract 4 story, 50 x 120 ft., brick, stone and rein.-con., to Eberhardt Constr. Co., Salina. $150,000; fee basis.

Kan., Salina — Administration — Kansas Wesleyan University 4 story, 150 x 202 ft. brick, stone and steel, to Eberhardt Constr. Co., Salina. $350,000; fee basis. Noted Feb. 9.

Buildings (Continued)

Kan., Salina—Bank and Office—Natl. Bank of America, 4 story, 50 x 120 ft. brick, stone and steel, to Eberhardt Constr. Co., Salina. $300,000; fee basis. Noted Feb. 23.

Kan., Wichita—Hotel—Rigby Gray Hotel Co. will build 100 room addition to Hotel Lassen, by day labor. $150,000. Richards, McCarty & Bulford, 584 East Broad St., Columbus, O., archts.

Neb., Fremont—High School—Bd. Educ., 3 story, 110 x 161 ft., rein.-con., brick and steel, to J. D. Phillippee, Fremont, $156,469. Noted Feb. 2.

Neb., Whitman — School — Bd. Educ., 2 story, rein.-con., steel and brock, to G. A. Hansen, 2640 South 12th St., Lincoln, $160,000. Noted Feb. 9.

Mo., St Louis—Bank—Imperial Trust Co., 2800 Chippewa St., 3 story, 85 x 120 ft., rein.-con., steel, granite and terra cotta, California St., to Mid-Continent Constr. Co., 1117 International Life Bldg. Noted Mar. 16.

Mo., St Louis—School—Nativity Parish, 5811 Harney Ave., 3 story, 60 x 100 ft., rein.-con., brick, steel and stone, Harney and Partridge Aves., to Duffner & Stecker, International Life Bldg. Noted Mar. 2.

Tex., Kerrville—Ward, etc—Building Bd. Amer. Legion Memorial Sanatorium, Austin, constructing 4th unit of hospital, nurses building to McKenzie Constr. Co., 606 Bedell Bldg., San Antonio, $25,030; general contract incl. 2 story ward building, sewerage system and disposal plant, to Walsh & Burney, 305 Calcasieu Bldg., San Antonio, $59,655. Noted Feb. 9.

Cal., Fresno—Hotel—California Hotel Co., 20 story, Mariposa and M Sts., to Lindgren Co., Manadnock Bldg., San Francisco. $2,000,000.

Cal., San Francisco — Aquarium — California Academy of Sciences, Golden Gate Park, constructing rein.-con. and stone, Golden Gate Park, general contract to Clinton Constr. Co., 140 Townsend St., $84,933; plumbing, heating and refrigeration to F. W. Snook, 596 Clay St., $35,805. Noted Feb. 16 under Miscellaneous.

Federal Government Work

PROPOSED WORK

D. C., Wash. — Annex — Treas. Dept., plans Treasury Annex 2. J. A. Wetmore, acting superv. archt.

Ariz., Globe—Post Office—Treas. Dept., Wash., D. C., rejected bids opened March 6, for U. S. Post Office, here. Noted March 9.

BIDS DESIRED

Mass., Boston—Alterations—April 11, by Treas. Dept., Wash., D. C., alterations to U. S. appraisers stores, here; J. A. Wetmore, acting superv. archt.; adv. this issue.

R. I., Providence—Dredging—April 17, by U. S. Engineer, Providence, maintenance dredging in Connecticut River, below Hartford; adv. this issue.

N. Y., Pelham Bay—Park Restoration—Spec. 4588—April 5, by Bureau Yards & Docks, Navy Dept., Wash., D. C., restoration of park, here. Noted Feb. 23.

N. Y., S. I., Tompkinsville—Machine Shop Addition—April 3, by Supt. of Lighthouses, Staten Island, 3 story, rein.-con. addition to machine shop at General Lighthouse Depot, here.

Pa., Pittsburgh—Barges—April 21, by U. S. Engineer, Pittsburgh, 3 steel deck barges; adv. this issue.

Kan., Ft. Riley—Steel Hangars, etc.—April 10, by Constr. Quartermaster, War Dept., 3 steel hangars and 1 oil and gasoline storage house, here.

Tex., Ft. Sam Houston (San Antonio P. O.)—Psychiatric Ward, April 5, by Constructing Quartermaster, for psychiatric ward building; adv. this issue.
Excavation & Dredging

Cal., San Diego — Roads and Walks — Spec. 4602—April 5, by Bureau Yards & Docks, Nevy Dept., Wash., D. C., roads and walks, here.

Samoa, Tutuila — Radio Towers — Spec. 4600—April 19, by Bureau Yards & Docks, Navy Dept., Wash., D. C., two 300 ft. radio towers, here. Noted March 9.

BIDS RECEIVED

Md., Hagerstown—Remodeling of Post Office—Treas. Dept., Wash., D. C., remodeling of U. S. Post Office, here, from Devault & Deitrick, Canton, O., $14,699; Garber & Cissell, Bethlehem, Pa., $17,500; Northeastern Constr. Co., Lexington Bldg., Baltimore, $17,845. Noted Feb. 23.

Wash., Puget Sound—Addition—Spec. 4564—Bureau Yards & Docks, Navy Dept., Wash., D. C., addition to shell house, here, from Parker & Wood, Bremerton, $17,750 (90 days); C. A. Martin, 205 Seaboard Bldg., Seattle, $18,000 (120 days); Miller Bros., Bremerton, $18,721 (90 days). Noted Feb. 23.

Cal., Mare Island—Addition—Spec. 4561—Bureau Yards & Docks, Navy Dept., Wash., D. C., addition to shell house and magazine, here, (1) work complete, from J. Pringle, 2364 32nd Ave., San Francisco, (1) $81,000 (180 days), (2) $14.80, (3) $0.10, (4) $5,700 (4 days); H. C. Veusanno & Co., 58 Sutter St., San Francisco, (1) $83,536 (180 days), (2) $18, (3) $0.35, (4) $5,385 (10 days). Noted Feb. 23.

Cal., San Diego—Steam Supply System—Spec. 4586—Bureau Yards & Docks, Navy Dept., Wash., D. C., steam supply system, at Naval Base, here, (1) work complete, from G. E. Eng. Co., 449 West 42nd St., New York, (1) $168,300 (150 days), (2) $86,100 (30 days), (3) $97,750, (4) $12,100, (5) $21,000, (6) $10,900, (7) $1,600; A. Pope, 4722 15th St., N. W., Wash., D. C., (1) $187,300 (150 days), (2) $100,570, (3) $100,570, (4) $14,800, (5) $26,670, (6) $13,500, (7) $2,500; J. W. Danforth, 70 Ellicott St., Buffalo, N. Y., (1) $187,857 (180 days), (2) $101,133, (3) $101,133, (4) $13,312, (5) $31,393, (6) $11,750, (7) $1,700. Noted Feb. 16.

CONTRACTS AWARDED

N. J., Lakehurst—Storeroom—Spec. 4580—Bureau Yards & Docks, Navy Dept., Wash., D. C., storeroom for gas cells, here, to C. Gilpin, 911 Harrison Bldg., Phila., Pa., $19,295 (60 days). Noted Mar. 16.

Cal., Mare Island—Addition—Spec. 4561—Bureau Yards & Docks, Navy Dept., Wash., D. C., addition to shell house and magazine, here to J. Pringle, 2364 32nd Ave., San Francisco, $92,400 (188 days). Noted Feb. 23.

Cal., San Diego—Steam Supply System—Spec. 4586—Bureau Yards & Docks, Navy Dept., Wash., D. C., steam supply system at training station, here to G. E. Eng. Co., 449 West 42nd St., New York, $168,300 (150 days) less $86,100 (30 days) item 6. (This deduction is made if two 250 hp. boilers are furnished by U. S. Government.) making total award of $71,300 (120 days). Noted Feb. 16.

Wash., Puget Sound — Addition — Spec. 4564—Bureau Yards & Docks, Navy Dept., Wash., D. C., addition to shell house, at naval ammunition depot, here, to Parker & Wood, Bremerton, $17,750 (90 days). Noted Feb. 23.

Miscellaneous

PROPOSED WORK

Fire Alarm and Police Call Telegraph System—Dunkirk, N. Y.—Voted $65,000 for fire alarm and police call telegraph system.

Extension of Telephone Lines, etc.—Richmond, Va. — Chesapeake & Potomac Telephone Co., 709 East Grace St., plans to expend $1,161,000 for extension of lines, new cables and additional switchboards.

BIDS DESIRED

Road Equipment — Canton, N. Y. — Bd. Supervs. St. Lawrence Co. taking bids for road equipment, incl. rollers, crushers, graders and drilling equipment. $100,000. W. J. Willson, Louisville, comr.

Granite Paving Blocks—New York, N. Y.—March 30, by J. Miller, pres. Manhattan Boro, Municipal Bldg., furnishing and delivering 50,000 new granite paving blocks. Former bids rejected. Noted March 9.

Tar Road Oil—New York, N. Y.—March 29, by H. Bruckner, pres. Bronx Boro, Boro Hall, furnishing and delivering 100,000 gal. tar road oil, 6,000 cu. yd. asphaltic wearing surface sand, 4,000 cu. yd. 1½ in. and 500 cu. yd. ¾ in. broken trap rock stone, 2,000 cu.yd. broken trap rock stone screenings, 20,000 bu. coke, long leaf yellow pine lumber, spruce lumber, cypress, whitewood, white pine, quarter sawn white oak and plain sawn white oak, motor gasoline and white ash anthracite coal.

Tunnel—Jersey City, N. J.—See 'Sewers."

Ash Handling Equipment—Phila., Pa.—March 28, by F. H. Caren, dir. pub. wks., 1 clam shell bucket and hoist with accessories and 1 double action steam engine. Carleton & Davis, City Hall, engrs.

Cast Iron, Pipe, etc. — Phila., Pa. — March 28, by F. H. Caven, dir. Pub. Wks., 51 ton 8 in. c.i. pipe, 2 ton 8 in. Universal pipe, 4 ton 8 in. bends, 1,500 lb. 8 x 8 branches, 75 ton 20 in. c.i. pipe, 11 ton 20 in. bends and miscellaneous fittings. Carleton & Davis, 796 City Hall, engrs.

Fire Pumps, etc.—Norfolk, Va.—March 29, 4 gasoline motor driven centrifugal fire pumps, also 5 brass monitors and 2 brass manifolds. C. E. Ashburner, city mgr.; adv. this issue.

Tank Wagon—Elkins, W. Va.—Dayton Constr. Co., in market for tank wagon, 500 gal., asphalt oil or tar distributor, for use of hand hose arrangement.

Sand—New Orleans, La.—April 6, by Bd. Port Comrs., 1 Canal St., furnishing 120,000 cu.yd. Lake sand at lock of Navigation Canal. Delivery must be made by barge.

Mine Rail, etc.—Nashville, Tenn.—March 27, by State Purch. Agt., 35 ton 35 lb. mine rail with fish plates and bolts, also 3,000 machine bolts, track spikes, etc., for Brushy Mountain State Penitentiary, f.o.b. Petros.

Equipment—Cleveland, O.—Western Reserve University, c/o W. S. Hayden of Hayden & Miller, Citizens Bldg., taking bids complete equipment for power house, $260,000. (Building to be erected this summer).

Garbage Conveyor, etc.—Cleveland, O.—Taking bids garbage conveyor and necessary machinery and equipment for garbage plant. J. F. Maline, City Hall, dir. pub. serv.

Steam Shovel, etc.—Chicago, Ill.—R. L. Gear, 29 South LaSalle St., in market for 1 steam shovel, caterpillar type preferred; 1 portable steam boiler and 1 dragline, etc.

Road Oil—Milwaukee, Wis.—March 29, by Central Bd. Purch., 200,000 gal. (more or less) medium-light road surfacing oil. G. Staal, city engr.

Excavator, etc.—Minneapolis, Minn.—April 3 by A. P. Erickson, aud. Hennepin Co., one No. 206 P. & H. excavator with full revolving crane, full corduroy traction with two propelling speeds. E. E. Terrell, Court House, engr.

Road Oil—Minneapolis, Minn.—March 27, by A. P. Erickson, aud. Hennepin Co., 250,000 gal. (more or less) asphaltic road oil, also one season's supply iron culverts, sectional concrete culverts and corrugated metal pipe.

Truck—Livingston, Mont.—April 10, 1½ ton motor truck, hydraulic hoist, end dump body. H. M. Shelver, clk.

BIDS RECEIVED

Drill Tower—San Francisco, Cal.—Bd. Pub. Wks., erecting fire drill tower, general construction from I. M. Sommer & Co., Balboa Bldg., $23,847, A. H. Vogt, 185 Stevenson St., $26,863, J. Spargo, 240 Montgomery St., $27,475; brick and hollow tile from C. Hock, 180 Jessie St., $9,375, White & Gloor, 180 Jessie St., $10,439, T. J. Campbell, 180 Jessie St., $10,540. Noted Mar. 9.

CONTRACTS AWARDED

Underpass — Springfield, Mass. — Boston & Albany Ry., South Station, Boston, underpass under Union Station, from New York, New Haven and Hartford R. R. to Boston and Albany tracks, to New England Constr. Co., 274 Main St., Springfield, $30,000. Noted March 16.

Heating and Ventilating Apparatus, etc.—Brooklyn, N. Y.—C. B. J. Snyder, supt. School Buildings of Bd. Educ., Municipal Bldg., New York, installing (a) heating and ventilating apparatus, (b) temperature regulation apparatus in (1) P. S. 187, 12th Ave., (2) P. S. 115, East 92nd St., Canarsie to Raisler Heating Co., 129 Amsterdam Ave., New York, (1a) $78,197; Heat Control Serv. Co., 267 Wykoff St., (1b) $7,397, (2b) $4,183; T. F. Hall, Inc., 405 Lexington Ave., New York, (2a) $44,956. Noted March 16.

Shelter and Concourse—Jersey City, N. J.—W. H. Cookman, archt., 420 West Price St., Phila., 1 story, 19 x 112 ft., 1 story, 27 x 90 ft., 1 story, 17 x 577 ft. and 1 story, 30 x 256 ft. steel and tile shelter and concourse, here, to Triest Contg. Corp., 126 East 59th St., New York, for Pennsylvania R.R., Broad St. Sta., Phila. This corrects report in March 16 issue.

Wharf Dock—Wash., D. C.—Dist. Comrs., 509 Dist. Bldg., wharf dock, Water St. between M and N Sts., S. W., to Cambridge Mfg. Co., Cambridge, Md., $14,260. Noted Feb. 23.

Foundation, etc.—Olympia, Wash.—State Capitol Comn. plain foundation and first floor walls of main buildings of capitol group, to Pratt & Watson, Olympia. Noted March 2.

Asphalt Heating Plant—Santa Rosa, Cal.—Supervs. Sonoma Co., constructing asphalt heating plant and concrete paving, to W. L. Proctor, 1000 Spring St., $7,500. Noted Mar. 2.